

BADGER STATE
Smoke Signals
For Radio Amateurs • By Radio Amateurs

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Those Were the Days!



This photo was taken in 1975 at one of the long-since ended Yellow Thunder Amateur Radio Club's series of famous hamfests at the Dell View Hotel in Lake Delton, WI. In the frame are, left to right, Fred Laun (originally W9SZR, from Kiel, Wisconsin, and now K3ZO); Herman "Butch" Greve, W9EWC ("Eat Wisconsin Cheese" of Hilbert, WI, and a cheese maker, now a Silent Key); Tom Luck, WB9BPS, Baraboo, WI; Antonio Cruz-Urbe, XE1BT, (consul for the government of Mexico in Green Bay, now a Silent Key); and BSSS Editor Jim Romelfanger (then K9PKQ, now K9ZZ, and about 75 pounds heavier than he is now). All of these radio amateurs had operated from DX locations except the chubby guy on the right. Fred operated from the Dominican Republic, Colombia, Thailand (after getting the Thai government to remove Thailand from the FCC's "banned list"), Argentina, and others, during the time he was employed by the United States Information Service (USIS). Butch operated from South Africa where he had several ham friends, and Tom operated from Shemya Island, near the end of the Aleutian Island chain, as KL7IFC. Fred now operates a "major league" contest station from 3-land.

- Photo by Erv Busse/W9OM0

Amateur Faces
\$15,000 Fine; Others
Also Face Action

54 "Freebanders" Also Cited

The Federal Communications Commission has initiated a fine of \$15,000 for an amateur accused of malicious interference using an unlicensed station. James Winstead, Jr., KK6SM, of Redwood City, California, is accused of using a mobile dual band transceiver to interfere with communications on commercial UHF channels, according to a June 8, 1992 FCC public notice.

According to the FCC, from October, 1990 to July 1991, their San Francisco office was contacted by at least 15 public service agencies and others, including amateurs, complaining of harmful interference. The subsequent investigation, reported in October, 1991 QST, page 64, included the assistance of a number of local amateurs.

The identity of Winstead, who according to the FCC admitted what he was doing when he was apprehended, was not released by the Commission until the Notice of Apparent Liability was issued, on May 18.

In other actions, the FCC Field Operations Bureau on May 22 announced Notices of Apparent Liability sent to 54 so-called "Freebanders," for unlicensed operation just outside the Citizen's Band. At least six of the 54 are also licensed amateurs. The fines varied from \$250 to \$3,500, with those operators who failed to permit inspections of their transmitting equipment receiving the heftier NALs.

And Andrew R. Yoder of Chambersburg, Pennsylvania, has been fined \$17,500 for "willful and repeated operation of an unlicensed broadcast station on 7415 and 17416 kHz and for failure to allow inspection of the station upon Commission request," the FCC said. Yoder, called in an FCC statement "one of the most active illegal stations which operated during 1990 and 1991," maintained no set schedule, operated sporadically, and moved his station to many different locations.

Tornado Devastates Southeastern Dane County; Radio Amateurs Assist National Weather Service, American Red Cross

By John Offerdahl, KC9XH
110 Lincoln, Verona, WI 53593

Wednesday, June 17, 1992, 1050 CDT: The National Weather Service at the Dane County Regional Airport pages South-Central Wisconsin Skywarn. The message: "A tornado watch is being issued for most of Wisconsin and we would like someone out here as soon as possible." Thus began a sequence of events culminating in destruction estimated in the tens of millions of dollars from a tornado which raged across 14 miles of southeastern Dane County.

Alerted by the page, John Offerdahl, KC9XH, District Emergency Coordinator for south-central Wisconsin, sent Mac Brophy, N9NTB, to the National Weather Service as liaison, and directed Jim Stone,

K9JVP, Dane County Emergency Coordinator, to activate South-Central Wisconsin Skywarn on the Central Wisconsin Repeater Association (CWRA) 146.88 repeater.

The first hint of trouble came just before noon with numerous reported funnel sightings between Monroe and New Glarus by the Green County Sheriff's Department. This prompted issuance by the National Weather Service of a tornado warning for Green and Dane Counties. Only minutes later, at approximately 12:10 p.m., hams reported damage to buildings just north of Belleville and destruction of a barn near the intersection of Highways A and 69 in extreme southern Dane County.

Then, silence on the net until hams southeast and

Please turn to page 10

Commission Sticks to Position
on Bigger Monetary Fines

The FCC has denied petitions to reconsider its new monetary fines structure for rules violations. The new, higher fines were instituted in an FCC policy statement last August and on April 15 the Commission's various bureaus were authorized to levy such fines.

In its Report No. GN-110, the FCC said a number

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ELMER



By Rich Regent, K9GDF



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What's Happening

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Edited by Kenneth A. Ebnetter, K9EN • 822 Wauona Trail • Portage, WI 53901

Swapfests and Other Social Events

SATURDAY, JULY 11, 1992. South Milwaukee Swapfest, Oak Creek, WI. Contact SMARC, P.O. Box 102, South Milwaukee, WI 53172. (414) 762-3235. (see also ad elsewhere this issue.)

SUNDAY, JULY 12, 1992. Du Page ARC Hamfest & Computer show. American Legion Grounds, Downers Grove, IL. Contact: Hamfest Chairman, DuPage ARC., P.O. Box 71, Clarendon Hills, IL 60514.

SATURDAY, JULY 18, 1992. Eau Claire Hamfest. at the Fairgrounds Building in Chippewa Falls, WI. Contact: Liz Searing, N9EQR, 1129 McKinley Rd., Eau Claire, WI 54701. (715) 834-1303.

SATURDAY, AUGUST 15, 1992. Rhinelander-Tomahawk-Eagle River Hamfest will be held on Hwy. 17 at the Sugar Camp Town Hall, 12 miles North of Rhinelander on Highway 17. Starts at 8:00 a.m. with an auction at 1:00 p.m. Amateur Radio license exams. Contact: Mary Berger, NS9Q, 367 Lois St., Rhinelander, WI 54501. (715) 362-9296. (see ad elsewhere in this issue for further information on the fine event.)

AUGUST 23-25, 1992. ARRL 1992 National Convention, Los Angeles, CA. See QST for details.

SEPTEMBER 19-20, 1992. Peoria Superfest, Peoria, IL. Contact Peoria ARC, P.O. Box 3508, Peoria, IL 61612. (309) 685-6698. (see also ad on back page.)

SUNDAY, OCTOBER 11, 1992. The KMRA 1991 Computer and Ham Radio Swapfest will be held at the Waukesha County Exposition Center, Hwys. J and FT in Waukesha, WI. Contact KMRA Swapfest, P.O. Box 411, Waukesha, WI 53187-0411.

SATURDAY, NOVEMBER 7, 1992. "6.91 Friendly

Fest", Serb Hall, 51st & Oklahoma Ave., Milwaukee, WI. Contact: The Milwaukee Repeater Club, P.O. Box 2123, Milwaukee, WI 53201.

SATURDAY, NOVEMBER 14, 1992. Fort Wayne, IN Hamfest. Contact AC-ARTS, P.O. Box 10342, Fort Wayne, IN 46851.

SUNDAY, JANUARY 10, 1993. 21st Annual WARAC MIDWINTER swapfest, Waukesha County Expo Center Forum, Waukesha, WI. Contact WARAC Swapfest, P.O. Box 1072, Milwaukee, WI 53201. Please note this will be on a Sunday next year instead of the previous Saturday dates. (see also ad on back page.)

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas. Send information on your event to Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

Club Meetings



Due to space limitations, we cannot always carry the full listing of Wisconsin and area club meetings. Please see the March 1992 meetings column for the latest complete listing. The following are additions or changes since that listing.

example, if a club meets on the 4th of the month, the material should be sent no later than the 11th of that month. This material is to be sent to the Editor.

Where to Send It

Address changes and corrections should be sent to Ken Ebnetter.

Editorial material, photographs, feature articles, display ads, and exchange papers should be sent to Jim Romelfanger.

Inquiries about advertising should be directed to Ken Ebnetter.

Swapfest information should be sent to Ken Ebnetter. Swapfest ads should be sent to Jim Romelfanger.

Subscriptions should be sent, with check or money order, to Jim Decker.

Conditions for Reprinting Material from Badger State Smoke Signals

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Editorial Disclaimer

The opinions expressed in editorials, guest editorials, columns, articles, and letters from readers are the opinions of the authors only, and do not, unless otherwise stated, express or imply endorsement by *Badger State Smoke Signals*, or by any other individual or organization.

MILWAUKEE RADIO AMATEURS CLUB

Last Thursday, Wauwatosa Savings and Loan (lower level) at 7500 W. State St. in Wauwatosa. No meetings in July, August and December. Meetings begin at 7:00 pm.

The Test Point



Amateur Radio Examination Locations and Schedules in the Wisconsin Area

The following are known locations where Amateur Radio license examinations are scheduled in the Badger State area.

July 11, 1992	Marshfield, WI
July 11, 1992	Oak Forest, IL
July 11, 1992	Houghton, MI
July 14, 1992	Mentor, MN
July 17, 1992	Eau Claire, WI
July 17, 1992	Clinton, IA
July 18, 1992	Eau Claire, WI
July 18, 1992	Blaine, MN
July 21, 1992	Milwaukee, WI (MRAC)
July 21, 1992	Eden Prairie, MN
July 25, 1992	Tomahawk, WI
July 25, 1992	Milwaukee, WI (MRAC)
August 1, 1992	Appleton, WI
August 8, 1992	Oak Forest, IL
August 8, 1992	Dixon, IL
August 18, 1992	Milwaukee, WI (MRAC)
August 18, 1992	Eden Prairie, MN
August 22, 1992	Fond Du Lac, WI
August 22, 1992	St Paul Park, MN
August 29, 1992	Milwaukee, WI (MRAC)
August 29, 1992	Tomahawk, WI
August 29, 1992	Cresco, IA
September 7, 1992	Dubuque, IA
September 12, 1992	Marshfield, WI
September 12, 1992	Oak Forest, IL
September 12, 1992	Bloomington, MN
September 15, 1992	Milwaukee, WI (MRAC)
September 15, 1992	St Paul, MN
September 20, 1992	Des Moines, IA
September 26, 1992	Milwaukee, WI (MRAC)
September 26, 1992	Tomahawk, WI
September 26, 1992	St Paul Park, MN
October 20, 1992	Milwaukee, WI (MRAC)
October 21, 1992	Milwaukee, WI (MRAC)
October 31, 1992	Milwaukee, WI (MRAC)
November 7, 1992	Menomonie, WI
November 7, 1992	Milwaukee, WI
6.91 Friendly Fest	
November 9, 1992	Onalaska, WI
November 14, 1992	Fond Du Lac, WI
November 14, 1992	Marshfield, WI
November 17, 1992	Milwaukee, WI (MRAC)
November 21, 1992	Dubuque, IA
November 28, 1992	Milwaukee, WI (MRAC)
December 5, 1992	Stevens Point, WI
December 15, 1992	Milwaukee, WI (MRAC)

Monthly, First Sat. Racine, WI
(except January, July & August)
Monthly, Last Sat. Tomahawk, WI
(January thru October only)
Monthly, Third Sat. Loves Park, IL

Many Swapfests/Hamfests offer exam sessions. If not shown above contact the sponsoring club in the Swapfest column on page 2.

GENERAL RULES

FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Most examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

Badger State Smoke Signals

Amateur Radio Education and Information

CHAIRMAN: Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901. Telephone (608) 742-3560.

EDITOR: Jim Romelfanger, K9ZZ, 412 1/2 Ash Street, Baraboo, WI 53913. Telephone (608) 356-4031.

TREASURER: Jim Decker, WB9UQT, P.O. Box 337, Baraboo, WI 53913-0337.

CONTRIBUTING AUTHOR: Richard R. Regent, K9GDF, 5003 South 26th Street, Milwaukee, WI 53221.

Subscriptions

1 year	(12 issues)	\$9.75
2 years	(24 issues)	\$18.00
3 years	(36 issues)	\$26.00

Special club package reduced rates are available. For information, contact Ken Ebnetter, K9EN.

When to Send It

The closing date for each issue is the first of the month for the next month's issue. For example, the closing date for the June issue is May 1.

The only exception is for participating clubs. Participating clubs are requested to send their material no later than SEVEN DAYS after the club's meeting. For

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 29¢ SASE if you request one from the ARRL or BSSS. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$5.40 payable to "ARRL/VEC".

The FCC now requires applicants to show their original Amateur license to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

MILWAUKEE RADIO AMATEURS' CLUB (MRAC/VEC)

TUESDAY DATES: At 6:30 p.m. at church, 11709 West Cleveland Ave., West Allis, WI.

SATURDAY DATES: At 8:30 a.m. in the lower level of Savings and Loan, 7500 W. State St., Wauwatosa, WI.

For Additional Information Contact; Jack Krause, W9JK, 1737 N. 116th St., Wauwatosa, WI 53226. (414) 774-6999 or Les Peterson, W9YCV, 9741 W. Howard Ave., Greenfield, WI 53228. (414) 321-4745.

Bring along your original license and two (2) good quality photocopies, plus two forms of identification, such a driver's license, etc. Also required are a pen and \$5.00 for the exam fee. WALK-INS are welcome. To register in advance, use a post card: print the grade of license you are applying for, and your name, address, and telephone number. Send the card to MRAC/VEC, c/o Jack Krause, W9JK, or Les Peterson, W9YCV at the addresses shown above.

BADGER EXAMINERS (BE) - MILWAUKEE

Unless otherwise noted, examinations are administered beginning at 1:00 p.m. to 3:30 p.m. at St. Nicholas Church basement, 5345 N. Green Bay Ave. (2 1/2 blocks south of Silver Spring), Milwaukee. Walk-ins are welcome. CW waiver forms are available. Please send a request with an SASE prior to taking an exam, so it is ready when attending the session. To register in advance, send a post card with your name, test or tests you wish to take, date you wish to take., your call sign, address and telephone number to Badger Examiners, Gary J. Sharbuno, W19M, 5119 W. Willow Rd., Brown Deer, WI 53223. Telephone (414) 355-0237.

FOND DU LAC - (W5YI-VEC)

Saturdays, Aug. 22, and Nov. 14, 1992.

The Fond du Lac County VEs will administer exams starting promptly at 1:00 pm, please be on time. Exams are given at the Red Cross Building, 272 N. Main St., Fond du Lac, WI 54935. Please use the back entrance. Talk-in on 147.09+. Walk-ins only, no preregistration is needed. For more info call: Gary Pelletier, KA9QOT (608) 837-3433.

MENOMONIE WI - ARRL/VEC

Saturday: Nov. 7, 1992

The Northern Wisconsin Radio Club sponsors exams from 9 to 11:30 a.m. at the U. W. Stout Communications Center, 820 South Broadway, Menomonie, WI. Use front entrance of building. Walk-ins are accepted only to extent of available exam materials.

Contact: Jim Ley, NX9F, (715) 235-3998 (H); or (715) 232-1397 (O).

MARSHFIELD, WISCONSIN

1992 dates: Jul. 11, Sep. 12, Nov 14.

Sponsored by the Marshfield Area ARS. Second Saturday every other month, at St. Joseph Hospital, School of Nursing entrance. Room 124. St. Joseph Ave., Marshfield, WI. Walk-ins Welcome. Contact Walter Friant, WBOKIN, 2310 Wal-lonnie Dr., Marshfield, WI 54449.

RACINE, WISCONSIN - ARRL/VEC

Monthly - first Saturday, except January, July, and August.

Exams are given 9:00 to 11:00 a.m. at the Red Cross Building, 4521 Taylor Avenue, Racine. Walk-ins are permitted. Inquiries and registrations should be directed to William Firchow,

Yellow Thunder Amateur Radio Club

Harry Westlund, K9EHJ, Secretary

K9ODK
WB9FDZ

720 Jefferson Street • Baraboo, WI 53913



The June meeting of the Yellow Thunder Amateur Radio Club, Inc. was called to order at 7:43 p.m. by Duane Grotophorst, KA9HKL, in the absence of the President, Art Kleefisch, W9WSS.

The minutes of the last meeting were accepted as published in the BSSS.

Jim Decker, WB9UQT gave his Treasurers report.

The club will put a special events station up in the Sauk Prairie on Sept. 5, 1992 at the annual Cow Chip Throwing Contest. All depends on getting permission from the event sponsors. Definite plans will be known by the July meeting.

L.J. Hemmer, WB9RFJ announced that Bob King, KA9GNY was home recovering from surgery. The club will send a card signed by all in attendance at tonight's meeting.

The meeting adjourned at 8:03 p.m. on a motion by L. J. Hemmer, WB9TFJ and seconded by Duane Grotophorst, KA9HKL. The meeting was cut short so more time could be spend on finalizing plans for Field Day.

The Buck Nite drawing was won by Phil Anderson, W9TP, who was not present to win.

Respectfully submitted,
Harry Westlund, K9EHJ, Secretary

The following members and guests were present at the meeting:

Duane Grotophorst, KA9HKL	Loganville
John Baesmann, N9PQP	Portage
Harry Westlund, K9EHJ	Baraboo
Raymond Matloz, N9MLZ	Reedsburg
Steven R Schwegler, WB9RNL	Wisconsin Dells
Tom Thomson, N9LLF	Sauk City
Marvin Kaiser,	Wisconsin Dells
Jim Decker, WB9UQT	Baraboo
Harry Mayland, K9FFT	Baraboo
Anne Klinkner	Prairie du Sac
Bob Sauvan, W19Q	Sauk City
Harold Reif, KA9YQP	Baraboo
Bill Klinkner, N9KXX	Sauk City

Jr., NW9P, 1912 27th Street, Kenosha, WI 53140, telephone (414) 658-8390.

TOMAHAWK, WI

Last Saturday of every month. Jan. thru Oct.

Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No preregistration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Greg Garner, WA9W, 4088 Highway 51, Harshaw, WI 54529. Telephone (715) 453-7096.

EAU CLAIRE, WI (W5YI/VEC)

July 17 and July 18, 1992

9 a.m. to noon at St. Olaf's Parish Church School, 2407 North Lane, on Eau Claire's north side near the airport. FCC form 610s will be supplied at exam site. Walk-ins OK. Danish rolls and coffee available.

Exams will also be given at the ECARS Hamfest on July 17, Friday evening from 7 to 9 p.m. and on the Hamfest day itself, July 18, from 9 a.m. to 1 p.m. Contact Carl F. Searing, 1129 McKinley Rd., Eau Claire, WI 54703-2219, (715) 834-1303.

STEVENS POINT, WI - ARRL/VEC

December 5, 1992

Contact: Joe Larson, (715) 344-1182 (evenings).

APPLETON, WI - ARRL/VEC

Contact: Larry Siebers, (414) 788-3823

ONALASKA, WI

November 9, 1992

Contact: Rick Williams, KV9U, 534 Troy St., Onalaska, WI 54650. (608) 783-8028.

DUBUQUE, IOWA - ARRL/VEC

1992 examination dates: September 7, and November 21. The Great River ARC VEs are now field-stocked with examinations, which means that retests can be given immediately. Exams are held at 9 a.m. at the Central Fire Station, 9th and Central, Dubuque. Use the basement entrance on 9th Street. Talk-ins are on 147.84/24, 147.63/03, and 146.295/895 repeaters. Contact Mike Jozefowicz, NSOU, 2735 Hockory Hill, Dubuque, Iowa 52001, (319) 582-8563.

LOVES PARK, IL

Third Saturday of every month. Northern Illinois Volunteer Examiners (DeVry VEC). Held at North Suburban District Library, 6340 North Second St. (Hwy. 251), Loves Park, IL. Contact:

Paul K. Dean, WB9HGZ, (815) 987-6754.

Out of State Exams

Information Provided
by the ARRL/VEC



IOWA

Clinton, 319-242-1281, James N Berkey
Cresco, 319-547-5329, Jim Murphy N9PRK
Dubuque, 319-582-8563, Mike Jozefowicz
Des Moines, 515-967-3890, Jim Snapp

ILLINOIS

Oak Forest, 312-247-0650, William Koltz
Dixon, 815-284-6380, Charles W Randall

MICHIGAN

Houghton, 906-337-2542, George R Thurner

MINNESOTA

Mentor, 218-637-2949, James Paulick
Blaine, 612-537-2649, Thomas Cunningham
Eden Prairie, 612-931-5721, Dean Anderson
(W5YI/VEC)
St Paul Park, 612-459-8678, David Harrell
Bloomington, 612-888-6187, Arthur Jensen
St Paul, 612-222-7253, John Bellows

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules. Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN at the address shown on page 2.



SSB
SELL SWAP BUY

OUR WANT ADS GET RESULTS

FOR SALE: Kenwood TS-830S HF Transceiver. Very good condition, appearance/operation. \$650.00 (OBO). WS9G, (715) 447-8363 (Stanley area).

FOR SALE: Colorful United States Stamps. 100 all different. \$1.00 postpaid. Richard Regent, K9GDF, 5003 South 26th St., Milwaukee, WI 53221.

Wisconsin Nets Association Ltd.

Rob Hummel, WA9ZTY, Secretary • 202 Midvale Drive • Marshall, WI 53559

Section Manager's Notes

Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee, WI 53221



Experimental Aircraft Association Fly-In will have Fox Cities ARC on 146.52 MHz with talk-in from July 31 through August 4th for visitors.

WARAC August 11th meeting WB9PAS gives programs on new features of ham radio equipment.

Exams August 1st in Appleton, August 18th and 29th in Milwaukee with info from W9JK or W9YCV, and August 22nd in Fond du Lac with KA9QOT.

N9DIJ promoted to Supervisor of Manufacturing Engineering at Delco.

WB9LAB has 1,500 parachute jumps and his wife (my sister) has 940.

August 15th at noon is the Green Fox ARC picnic at Zobel Park.

W9IBM of Superior reports Arrowhead Amateur Radio Club with 106 members has picnic August 16th and holds nets: Sundays 28.450 MHz

Volunteers to the Rescue

You could hear the desperation in his voice. Tri-County Club Secretary Jim, W9JPI, had been given the task to find a licensing exam team just weeks before the Hamfest. They didn't have enough Extra Class club members to form an adequate team themselves.

The Tri-County ARC of Fort Atkinson, Jefferson and Whitewater had already sent out hundreds of flyers and made announcements that amateur exams would be available at the Hamfest. Impossible problems are harder to solve.

Fortunately, Jim heard Phil, WU9E, on a 2-meter repeater talking about exams. He broke in to ask for help. It wasn't long before the Tri-County ARC Exams Coordinator Ed, KD9MK, got

Wisconsin Nets

Net	WNA	Freq.	UTC	CDT	Mgr.
BWN	Yes	3984	1100	0600	W9AYK
BEN	Yes	3985	1700	1200	WB9ESM
WSBN	Yes	3985	2230	1730	K9UTQ
WNN	Yes	3723	2300	1800	KA9FVX
WSSN	Yes	3645	2330	1830	N9BDL
WIN/E	Yes	3662	0000	1900	WB9ICH
WIN/L	Yes	3662	0300	2200	W9NGP
NWTN	Yes	34/94	2330	1830	NS9Q
(Rhinelander area)					
RCRA	No	01/61	2330	1830	KA9OMC
(Mondays CST) (Menomonee Area)					
Gr. Bay	No	72/12	0145	2045	WB9NRK
(Green Bay Area)					
ARES	No	4.65/5.25	0100	2000	
(South East/South Central Wisconsin)					
RACES	No	3993.5	1300	0800	WA9OAY
(LSB Sunday)					

CW at 7:30 p.m. and SSB at 8 p.m., also 146.94 MHz at 9 p.m.

Sorry to report Silent Keys AA9M of Viroqua, W9SFK of Waterford, W9NYI of Stevens Point, and W9MYG of Sheboygan.

Thought of the month: *Truck deliveries that normally take one day will take five when you are waiting for the truck.* □

together with Phil by mail to make arrangements for exams.

On the day of the Hamfest exams were indeed given. Besides Volunteer Examiner WU9E, other helpers from the Southeastern Wisconsin Amateur Testers (SWAT), an ARRL VE team, were VEs N9JAK, N9HWB, KA9MWT, K9ESA, W9VZ, AA9DO, KB9QL and WK9N. They gave the exams, helped with the paperwork and made the day a success for the Tri-County ARC.

Jim promises to get plans underway now to ensure that an exam team is ready for next year's Hamfest. Jim said, "I can't thank them (SWAT) enough for the quick response to our dilemma." This is surely a good example of the spirit of Amateur Radio.

- Richard Regent, K9GDF

Correspondence

WHEN IS A TRANSMITTER NOT A TRANSMITTER?

Dear Jim:

I probably won't be the only one to point out an error in the text accompanying the photographic layout at the top of page 7 of the June, 1992 *Badger State Smoke Signals*.

The BC-312 is a receiver, not a field transmitter. A BC-312 is pictured on the second shelf of the

open rack in the lower right photo of the layout.

The two transmitters in the same photo (one on the table and the other in the bottom slot of the open rack) are either BC-375s or BC-191s. It is impossible for me to tell from the photo the difference between a BC-312 and a BC-191.

The unit on the top shelf of the open rack (and in the lower left of each of the transmitters) is a BC-375 (or BC-191) tuning unit.

- Dick Sisson, W5ONL
Racine, WI

Thank you for the correction, Dick! Guess what, though..... you were the only one to point out the error!
- Editor

FCC Commends Radio Amateurs in Sea Rescues

California-Hawaii Net Credited, with Saving 7 Lives

An Amateur Radio net has been commended by the Federal Communications Commission for its assistance to two private boats in distress. FCC's Ralph Haller, N4RH, Chief of the Private Radio Bureau, on May 12 sent letters of commendation to nine members of the California-Hawaii Maritime Amateur Radio Net for their efforts in assisting two private yachts in September, 1991.

"Because the amateur radio service is regulated by the Private Radio Bureau, I want to convey to you my appreciation and personal congratulations for a job well done," Haller wrote to the net members.

The week-long saga began when a Pacific storm caught two boats, the *Molly Sue* and the *Dauntless*, eastbound from Hawaii to California. The *Molly Sue*, a 50-foot ketch, skippered by Ron Bodeen, WA7PGH, also carried his wife, Molly, and a Hawaiian crewman. The *Molly Sue* and the *Dauntless* had intended to travel together but the *Dauntless*, a 65-foot schooner, out-ran the other boat by some 500 miles in the storm, out of marine radio range.

Up to this point, the *Molly Sue* had been in ordinary, casual contact with the California-Hawaii Net. Strong winds ripped the *Molly Sue's* sails and broke her halyard, injuring the crewman in the process. His injuries appeared serious.

The U.S. Coast Guard in Hawaii was alerted and its station came up on the net frequency, 14,340 kHz. The Coast Guard then diverted a freighter, the *Cape Bover*, which was in the vicinity of the *Molly Sue*. After sending a diver down to untangle the *Molly Sue's* lines, the *Cape Bover* departed.

Unfortunately, three days of work failed to repair the *Molly Sue's* sails, and she did not have enough fuel on board to steam to the U.S. mainland. Upon hearing this, the California-Hawaii Net called the Coast Guard in San Diego, to relay word from skipper Bodeen that he had spare sails in his back yard there. A local amateur, hearing this on the net frequency, went to Bodeen's home, retrieved the sails, and delivered them to the Coast Guard. The sails and additional fuel were then flown to the *Molly Sue* and successfully parachuted to her.

Meanwhile, the *Dauntless*, back in radio range, had reported to the *Molly Sue* that she was taking on water and running out of fuel. The net relayed this to the Coast Guard, and the *Dauntless* was towed to San Francisco.

The *Molly Sue*, fitted with new sails, proceeded uneventfully to San Diego.

According to net member Stan Black, KF7BT, the net suspended its normal operations for the duration of this dual emergency, for nearly seven days.

In his letter, Haller said, "In both instances, members of the Net gave unselfishly of their time by voluntarily maintaining a 24-hour a day communications watch to keep the Net clear and to assure a relay capability. Without the untiring efforts of the amateur operators concerned, the vessels might have been lost at sea and seven persons might have perished.

"You have shown, in a very dramatic fashion, the good that can be accomplished by amateur radio and by dedicated amateur operators. I commend you and the other members of the Net who participated. You are a shining example of the communication skills, dedication, and public spirit of the amateur service."

The net, according to Stan Black, has operated on 14,340 kHz for 16 years, every day except weekends and holidays. "We know that the bands are more crowded then so we suspend the net on those days so others may use our frequency if they wish."

And during this crisis amateurs were exemplary in keeping the net's frequency clear, Black said.

This event has been reported in *Yachting* magazine, but this is its first reporting in the Amateur Radio press.

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HERE and THERE

ARRL DXCC Field Representatives

There are four DXCC ARRL Field Representatives in Wisconsin, ready to check QSL cards to confirm your first 100 countries. You'll have to get in touch with them directly to make arrangements. Here they are: **Peter Byfield, K9VAL**, 4534 S. Hill Ct., Deforest 53532; **Herb Jordan, W9LA**, 6318 Putnam Rd., Madison 53711; **Frank Holliday, WB9NOV**, 23 Walworth Ct., Madison 53705; and **Ed Toal, WI9L**, 5141 Sunrise Ridge Trail, Middleton 53562.

Information about becoming a representative can be requested from Tammy-Beth Zimmerman, KA1WWP, at ARRL Headquarters, 225 Main Street, Newington, CT 06111.

- Richard Regent, K9GDF

New ARRL Video Available

A new video called "Your Headquarters at Work", produced by WB1HBB, NY1Z, KA1MLH, KA1WRZ, and KA1FZD, can be loaned for showing to your group free. An s.a.s.e. to the ARRL's Educational Activities Department will get you an order form, as well as a list of other videos available for loan on a variety of Amateur Radio subjects.

- Richard Regent, K9GDF

Arrowhead RAC Info

The Arrowhead RAC, of the Superior, Wisconsin and Duluth, Minnesota areas, meets the second Tuesday of each month at the Harrison Community Club in Duluth at 7:30 p.m.

Their newsletter, *Discharge*, written by W9IBM of Superior, Wisconsin, has all the latest news about their 100+ members. Activities include their monthly ham breakfast at Helen's on Commonwealth Avenue in New Duluth, the Diabetes Bikeathon, and Swapfests. They will be having a picnic on August 16th.

They have three nets on Sundays: 7:30 p.m. CW on 28.45 MHz, 8 p.m. on 28.45 SSB, and 9 p.m. on 146.94 MHz FM.

Officers are President AA0AW, Secretary KB0JDX, and Treasurer KA0CDO.

- Richard Regent, K9GDF

Coast to Coast Bicycle Classic to Trek Through Wisconsin in July

The 1992 Coast to Coast Bicycle Classic™, under the auspices of Tim Kneeland and Associates of Seattle, Washington, will bring a large number of cyclists through Wisconsin July 6 through 9. The bikers began their trip on June 8.

The bikers, riding more than 3,300 miles from Seattle to Asbury Park, New Jersey for various charities, will be "overnighting" in Sparta on July 6, Baraboo on July 7, Lake Mills on July 8, and Milwaukee on July 9. The entire ride takes 48 days, and ends on July 25.

"Base Support Operators" will be in contact with vehicles accompanying the bikers to help keep track of bikers, help to handle emergencies and to help solve safety problems, and to maintain a link between the bicyclists and the road staff.

If you hear the cyclists' ham crew on your local repeater, be sure to drop in on the frequency and give them a great Wisconsin welcome!

The Glistening, Grand and Glorious Great Circus Train

The 1992 run of the Great Circus Train from

Baraboo to Milwaukee will begin on Tuesday, July 7. The train will leave the Chicago and North Western Railroad yard in Baraboo at 9 a.m. July 7, and arrive in Janesville around 3:30 p.m. After an overnight stay in Janesville, the train will resume its journey to Milwaukee via northern Illinois and then to Milwaukee July 8. Radio amateurs will be aboard to provide emergency communications and to keep interested amateurs updated about the train's location. Ham operation from Baraboo to south of Madison will most likely be on 146.88 MHz, the Central Wisconsin Repeater Association's Baraboo wide-area repeater). Later on the first day of the trip, as the train nears Janesville, the train's ham operators may operate on Janesville's 145.45 MHz repeater.

The Great Circus Parade will be in Milwaukee on Sunday, July 12. Hams will be helping with the parade, too. If you'd like to volunteer, contact Milwaukee County Emergency Coordinator John Leekley, WB9SMM.

Slow Access to 220 MHz Forces UPS to Scramble

Because of delays in gaining access to frequencies in the 220-222 MHz range, United Parcel Service has taken steps to utilize cellular telephones for some of its package-tracking data services.

But the company has *not* abandoned plans for eventually using 220-222 MHz (which was reallocated from the Amateur Service last August), according to a UPS official. UPS is frustrated by the FCC delays and simply can't wait any longer, the official said.

UPS has contracted for three years of cellular service and plans to replace the the cellular equipment in their vehicles with 220-MHz equipment later, should they get the necessary FCC license.

The interim solution will be expensive - money that UPS could have used to build their 220-MHz system. And the cellular system will not have the capacity to track all UPS's shipments, and will in most cases be limited to tracking overnight deliveries.

- The ARRL Letter, 5/26/92

New Handout Helps Explain Radio Frequency Interference

Hot off the press is a free ARRL pamphlet explaining radio frequency interference to the public. Although intended to be handed to one's neighbor when an interference complaint arises, most amateurs will also find the hand-out a handy, concise summary of RFI issues and well worth reading.

Here's the first paragraph your neighbor will read:

"As our lives become filled with more technology, the likelihood of unwanted electronic interference increases. Every lamp dimmer, hair dryer, garage-door opener, radio transmitter, microprocessor-controlled appliance or remote-controlled new technical 'toy' contributes to the electrical noise around us. Many of these devices also 'listen' to that growing noise and may react unpredictably to their electronic neighbors."

The pamphlet stresses cooperation. After pointing out various sources of electronic pollution,

Silent Keys

William Hebal, W9NYI, 88, of Stevens Point, died on May 31, 1992.

He received his Amateur Radio license in 1922 and earned his commercial license in 1924.

In February, 1925, he began working for the first privately-owned, government-licensed radio station in Stevens Point, WHBB, which broadcast from the family home.

He was a member of the Institute of Radio Engineers, the Quarter Century Wireless Association, and other professional organizations and other clubs.

Theodore Salvin, WB9MAX, of Stevens Point has also died. No other information is available.

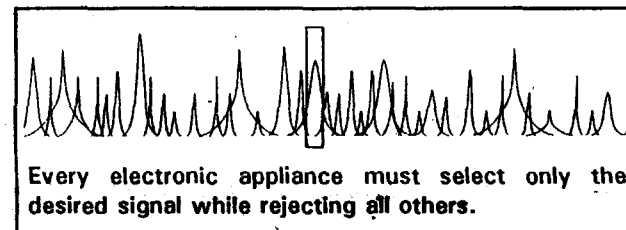
it says

"With all of these possibilities, it is difficult to guess which type of problem is causing your interference. Usually, only a technical investigation can pinpoint the cause and suggest a solution. This is where a spirit of cooperation and trust will pay off! If you believe your equipment is picking up signals from a nearby radio transmitter, the operator may be able to help you both find a solution to a mutual problem."

The section entitled "Personalities" is worded in such a way ("you and your neighbor") that the points of view of either the "interferer" or the "interferee" become interchangeable.

But make no mistake - the pamphlet emphasizes that many if not most cases of interference to consumer electronic devices are the result of deficiencies in that equipment - without belaboring the point.

A single chart adds technical aura to the brochure:



Finally, the brochure lists addresses for the ARRL, the Electronic Industries Association, and the FCC (in Washington), as well as a few suggested sources for high-pass, common-mode, and telephone interference filters.

The pamphlet is available in small quantities for an SASE from ARRL Headquarters (225 Main St., Newington, CT 06111); contact the ARRL RFI Desk for special arrangements if you wish to obtain large quantities.

(Editorial comment from *The ARRL Letter's* editor: This is a *terrific pamphlet*, and every ham who's on the air should have at least a couple on hand in case of an "emergency").

- The ARRL Letter, 5/26/92

Madison Ham Wins Scholarship

Robert J. Goemans, N9HAD, was named winner of the 1992 \$500 Edmond A. Metzger Scholarship by the ARRL Foundation.

- Excerpted from *The ARRL Letter*, 6/11/92

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9207

Amateur Radio on a budget

By Dick Sisson, W5ONL

517 Sheridan Road
Racine, WI 53403

A couple of years or so ago, the American Radio Relay League conducted a survey of Novices, to which approximately 700 responded.

- The average of the respondent was 34.6 years.
- Nineteen percent had been licensed less than a year.
- Forty percent had been licensed from one to three years.
- Eleven percent had been licensed from three to five years.
- Twelve percent were in communications/electronics-related occupations.
- Twenty-three percent were in computer-related occupations.
- Eleven percent were professional people, including medicine, accounting, law, and education.
- Eleven percent were skilled craftspersons.
- Twenty-two percent were full-time students.
- Twenty-one percent were retired persons.

Of the approximately 700 respondents, only seventeen percent said they were on the air frequently. Forty-three percent said they were on the air occasionally. An alarming forty percent said they had never been on the air!

One of the questions was, "Which of the following have interfered with your enjoyment of Amateur Radio?"

- A. Amateur restrictions where you live
- B. RF interference or television interference
- C. Not enough support from local radio club
- D. No local radio store
- E. High cost of equipment
- F. Limited operation privileges
- G. Other (expanded on survey)

Some of the respondents indicated more than one of the above, making the total number of responses considerably larger than 700, so a breakdown follows.

- A. 36
- B. 46
- C. 66
- D. 174
- E. 338
- F. 159
- G. 239

Clearly, the leading problem is the high cost of equipment!

Admittedly, the cost of brand-new equipment, including but not limited to top-of-the-line, can be prohibitively expensive for many budgets. Where on your license does it say that you have to start with brand-new equipment? I submit that, if you want to get on the air badly enough, regardless of your budget, you can find a way - and I don't mean irresponsibly, such as blowing the rent money or making the family go hungry.

I've been hamming for nearly 44 years, am a computer professional making a comfortable wage, and have a station that I consider "world class" (unfortunately, not all here with me in Wisconsin!), yet very little of my station was brand-new when I acquired it. I started out in Amateur Radio as a teenager with very little financial assistance from

my parents and supported the first years of my hobby with a newspaper route. Granted, my station was primitive and very modest, even by the standards of that era, but they sufficed to earn me WAS, WAC, RCC, and a 35-WPM code proficiency sticker, and even to win a few contests!

One of the challenges of the hobby for me has always been to see how much I could accomplish with a modest investment. Also granted, I don't think my station achieved "world class" capabilities until recent years. Many accomplish this in much less time than I, but few accomplish it with much less money. Even today, some of my gear is 1960s vintage, and still uses vacuum tubes, but it provides satisfactory signal quality and reliability. A good part of my station's capabilities can be attributed to my tower and antenna.

Five of the eight sections of my tower were given to me for taking them down. Also given to me for taking it down was a triband Yagi. That particular antenna didn't fit into my plans, so I reconditioned it and traded it on one which did. I "retired" a different brand of triband Yagi after 26 years of faithful service because all but one of its traps had developed cracks. The replacement cost of a full set of traps was approximately the same as the cost of replacing the complete antenna, which is what I did in the trade. However, the "retired" antenna was cannibalized for parts, except for the traps, and nearly 100 percent of it is back in service elsewhere on my tower! My HAM-II rotator was bought at a local radio club auction for a fraction of its original cost.

So much for my station. What options are open to you today for building a station on a budget? Beside brand-new gear, many dealers carry some (mostly late model) good used equipment with various warranties. In an even lower price range, various electronic flea markets offer rigs of all ages without warranties. I've bought from both sources, and have yet to be "burned" on a deal, although it certainly can happen. Of course, used equipment can also be found in classified ads in trader sheets, in other Amateur Radio publications, in local newspapers, and sometimes by word of mouth. An overwhelming percentage of the used as well as new gear has SSB, FM, and/or CW capabilities. Some of the older gear has AM but not SSB phone capabilities. This gear will work as well on the newer gear on CW, and if that is where you plan to spend your time, it may fill your bill at lower cost. Just be aware of what you're getting.

When in doubt, find one or more experienced hams and ask his or her advice. One of the principal caveats in buying the very old transmitters (say, pre-1950) is that many of the transmitters built before that date lack adequate TVI suppression.

Vacuum tubes for the very old equipment are becoming harder to find and are therefore getting more expensive. This situation is not likely to improve, but if the equipment works well and the price is right, this alone is not yet reason enough to avoid buying it. Much of the older equipment is built less compactly and is therefore easier to work on.

If you are fortunate enough to have trees or other suitable supports, then wire dipoles, either flat-top or inverted V, usually are a good way to start at low cost. Even lacking ready-made supports, I found, for \$5, a fifty-foot pushup mast which was supporting an abandoned TV antenna at my church. When erected on the peak of my roof and rigged with a pulley like a flagpole, it supported a multiband dipole inverted V at 65-70 feet for several

years. As a general rule, the higher antenna you can manage, the better. Higher antennas not only perform better, but they also tend to be further away from nearby TVs and stereos, which may help reduce TVI and RFI.

When you can afford to upgrade your station, often antenna improvements will help more than higher power. For one thing, antenna improvements help both transmitting and receiving, whereas increased power helps only when transmitting. Moreover, antenna improvements generally help performance without compounding TVI and RFI problems. The same sometimes cannot be said for increased power.

There was a time when any radio amateur worth his salt built his own equipment. However, this was not primarily done to save money. The equipment of that era was far less complex than the equipment of today, and factory-built equipment was not nearly as plentiful as were parts. Also, it wasn't too difficult to build something that would perform about as well as the factory-built rigs. There are some exceptions, to be sure, but generally, building one's own equipment is much more difficult today because of its complexity and the parts are much harder to find. Today, it is difficult to match the performance of well-designed, factory-built equipment.

Even if one is able to build equipment which approximates factory-built performance, it is not likely to result in a cost saving. Still, there are a few hams who take pride in building their own, but I believe they do it more for the sake of the art rather than for economy.

Sometimes, however, it is possible to cost-effectively modify factory-built equipment to achieve capabilities it did not previously have. Many articles have appeared in various Amateur Radio magazines concerning modifications and conversions of equipment.

If the equipment has the features you want but isn't performing up to its specifications, repair or reconditioning may be all it needs. The techniques are similar to, but somewhat simpler, than conversion or modification. Usually neither operation requires that you be a rocket scientist, or even that you have a bench full of sophisticated test equipment. Just be realistic with yourself about what you can handle, and don't take on more than that, or know where to get help.

If a repair or reconditioning job just seems beyond you, some manufacturers will do it for a fee, if it is one of their products. In addition, there are a few firms and a few individuals who repair or recondition one or more brands of equipment for a fee (particularly useful when the manufacturer has gone out of business). You may be able to go this route and still end up with a good piece of gear for less than it would cost you to buy a new one. I wouldn't count on persuading one of them to make "non-standard" modifications for you, however.

The same survey of Novices showed that fully 75 percent of the respondents were not members of local radio clubs. In Amateur Radio, as in most endeavors, many of the best bargains are uncovered through networking. The nominal investment in time and money to affiliate with a local radio club can well pay for itself in the contacts who know where the best bargains are. □

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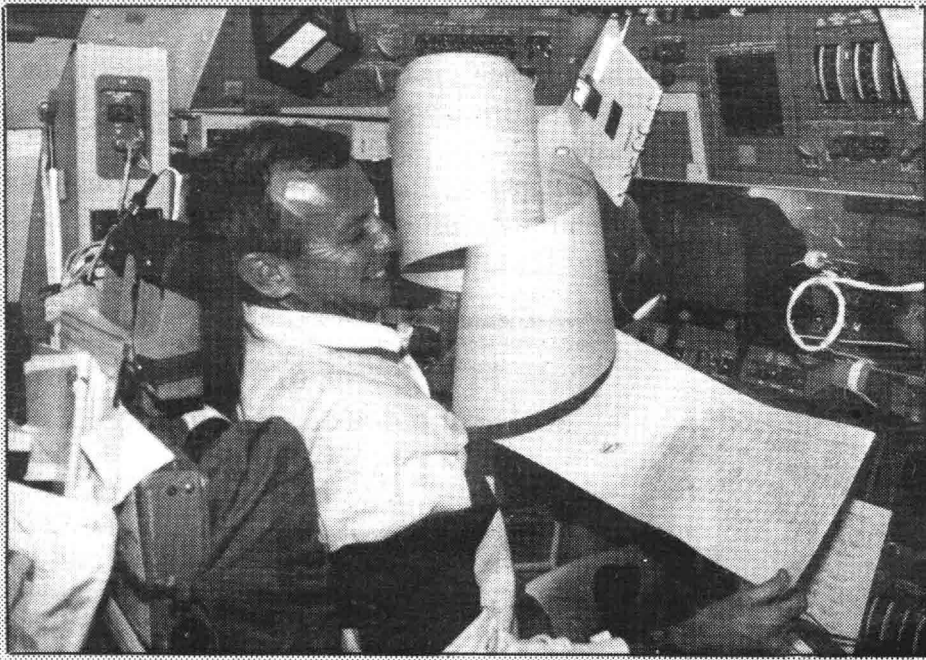
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Paper Chase in Weightless Space



Packeteers, RTTYers, and other hams who operate digital modes will be able to relate to this feller. He's Mission Pilot Brian Duffy, N5WQW, aboard the STS-45/ATLAS/SAREX Atlantis mission in March, and he's struggling with a large volume of data printouts from the orbiter's teleprinter system. He is seated at the commander's station on the flight deck. Sometimes the printouts digital users who are earth-bound get are voluminous and hard to handle, but it has *got* to be even worse when the paper is weightless!

- NASA photo

DXCC Workout Pays Off

An elderly gentleman picked up the latest ARRL DXCC countries booklet at my League table and paged through it. He looked at me and said, "I'll buy this." His brass belt buckle engraved with the call W9SS sparkled as he turned to say, "I'm Dennis from Rockford."

I thanked him for his purchase and asked, "How many countries have you worked?" "Three hundred twenty three presently active countries," then quickly added, "but really 339, since 16 deleted countries were dropped over the years."

"How did you get so many?" I questioned. Dennis thought a few seconds, then gave a short answer like calling a rare DX station. "Perserverance and longevity. Just got Albania and hope to get North Korea in May."

"What can other hams do to get started in working so much DX?" I asked. "Enter DX contests on 10 meters, the ARRL Worldwide and CQ SSB contests. You might get 100 countries in one weekend," said Dennis, as he probably realized this was one tip for a successful DX career. To get the remaining countries though, there were many years of planning, listening, calling, QSLing, and earning pleasant memories.

"The sunspot cycle is going down though now; my chances to get new countries are nearly over," he said. Dennis thought a second as if there were something else he could say, but then winked and continued on his way to enjoy more of the swapfest. An accomplished DXer, and one of the many nice folks you can meet in Amateur Radio.

- Rich Regent, K9GDF, Section Manager, Wisconsin Section ARRL

Whose Frequency is it, Anyway?

Who "owns" the ham frequencies? Dialing across the bands, an impression might be reached that certain people have exclusive rights to a particular frequency. We find this evident when an individual or two clash with an on-going group on a particular frequency. "We always operate here at this hour; this is our frequency." This, in one form or another, is heard often, but it is partially untrue.

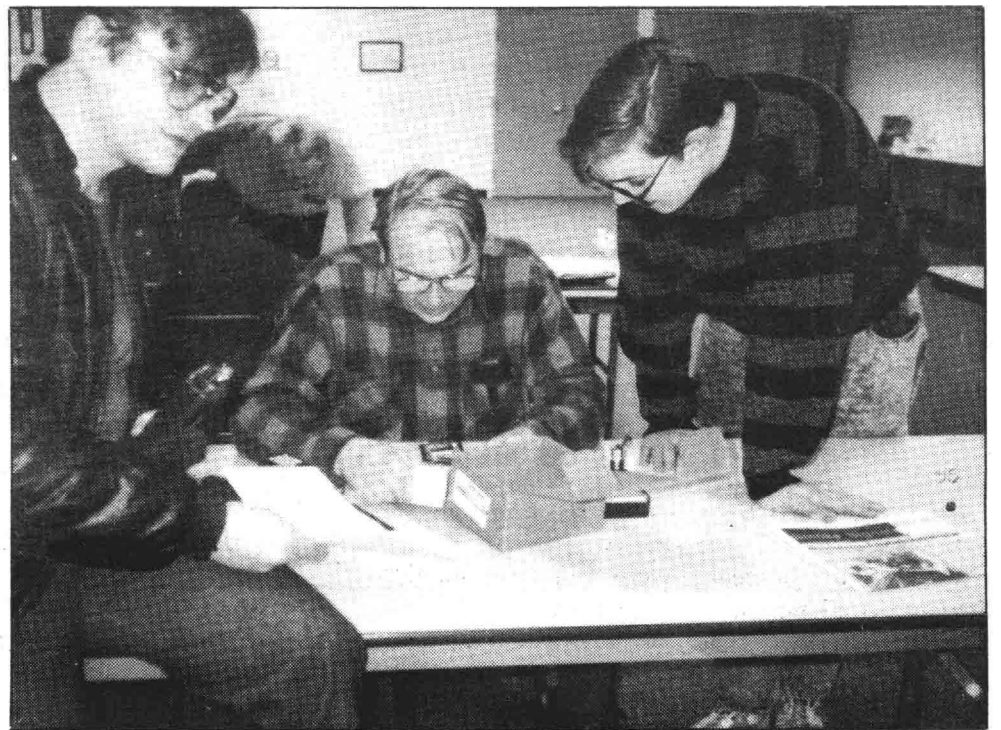
Except for staying within the federally mandated frequency allotments and operating according to the law, no one has any exclusive right to any one frequency. It all pretty much amounts to squatters' rights: "I'm here first, so bug off and leave me alone." This, disturbing as it may seem, is the lawful approach. But this tends to make for some hard feelings, especially when this "right" runs headlong into an established group's routine. Generally, when this occurs, the individual will concede the frequency and leave, but this is only a gentleman's agreement. Were the individual(s) adamant, the other parties must bite the bullet and either wait for the frequency to clear or find another place to operate, and do this without becoming angry.... this is the way things are.

A reasonable (and popular) solution is for several stations to occupy a frequency prior to the group's session and give it up at the proper time.

The ham frequencies belong to everyone, yet they belong to no one in particular. They are ours to share, to use in a manner which serves the "public interest," as the law dictates. By insisting on exclusive rights, we do harm to Amateur Radio's image and effectiveness as volunteer communicators.

- Dan Schobert, W9MFG
805 Meadow Lane, Plover, WI 54461

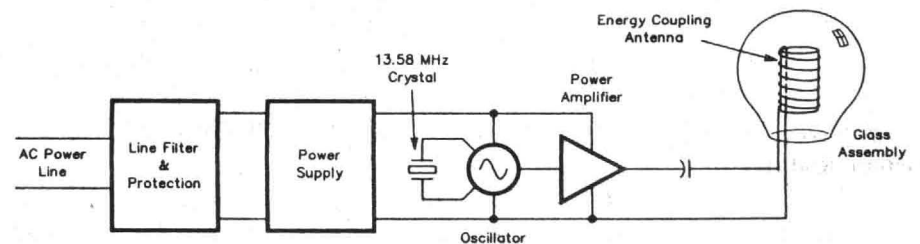
Racine Megacycle Club Holds Special Meeting for Future Hams



This past spring, the Racine Megacycle Club held a special club meeting at the Red Cross building for aspiring hams-to-be. Here, Gene Haney, WB9ZKY, is explaining a circuit board to a young future radio amateur at right.

- Photo and information by Arne Moxness/KA9ZPY

Amateurs Concerned About RF Lightbulbs



A block diagram of the RF lightbulb, as received from Intersource Technologies. The frequency should read 13.56 MHz, *not* 13.58.

A new RF powered lightbulb design announced recently is not yet in production nor are engineering samples available. Although the manufacturer, Intersource Technologies Inc. of Sunnyvale, California says the bulbs are expected to meet FCC Part 15 rules regarding incidental interference, many radio amateurs have expressed concern about the bulbs.

Please turn to page 8

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League to Inaugurate Washington D.C. Office

On July 1, the American Radio Relay League will open its new Washington office, co-located with the law firm of Booth, Freret and Imlay, in Suite 204, 1233 20th Street Northwest, Washington, D.C. 20036.

Concurrent with the opening of the new office, ARRL Manager of Technical Development Paul

Rinaldo, W4RJ, will become Technical Relations Manager in the Washington office. Rinaldo has been based at the League's administrative headquarters in Newington, Connecticut. Rinaldo will be responsible for day-to-day contact with federal agencies.

ARRL Washington Area Coordinator Perry Williams, W1UED, will continue to conduct legislative affairs both from the League's Washington and Newington offices.

The move will make the League's liaison with government more efficient and cost-effective. "With Paul Rinaldo's increasing involvement in telecommunications responsibilities in Washington, he has been spending more time there than in Newington," ARRL Executive Vice President David Sumner said.

Replacing Rinaldo as editor of *QST* effective with the August issue is ARRL Publications Manager Mark Wilson, AA2Z.

- The ARRL Letter, 6/11/92

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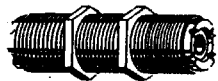
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10 FOR \$ 12.00



3.5 MM EXT CABLE
20 FT. SHIELDED
REG \$ 3.00
\$ 2.00 EACH
10 FOR \$ 19.00

New FCC Form 610 Required for Disabled Code Exemption

New FCC 610 forms dated March 1992 must be used beginning August 1 by disabled applicants for exemption from the 13 and 20 WPM Morse code requirements for amateur licenses.

The new forms have just become available and are six pages long, with four pages of instructions. The forms now include appropriate spaces for the physician's certification of disability as well as the patient's authorization for release of medical information to the FCC, if requested.

Although all amateurs are encouraged to use the latest FCC Form 610, for all license actions other than the disability exemption any form 610 dated June 1984 or later is acceptable.

- ARRL Bulletin 54, 6/16/92

RF Lightbulbs Causing Amateur Radio Worry

Continued from page 7

A spokesman for General Electric Company's lighting division, quoted in the *Washington Post*, said GE felt the idea was not marketable at this time, citing concerns about possible interference to radio receiving devices, among others.

Tom Moore, a spokesman for Intersource, said the company had received a number of calls from amateurs, mostly neighbors in Silicon Valley, many of them offering to "beta test" bulbs when they become available.

Moore said he expects that the bulbs will have to be FCC type accepted. When asked about the possibility of a nearby transmitter lighting up one of the bulbs, he said it was Intersource's belief that it would take a transmitter many times the power of an Amateur Radio set to be able to do so.

The bulbs as currently envisioned would operate at 13.56 MHz, within the "Industrial, Scientific, and Medical" band. 25 watts of RF power would produce the same amount of light that an ordinary 100 watt incandescent bulb does. The bulbs would use a crystal oscillator, power amplifier, and a coil-type antenna to "couple high frequency electrical energy into a mercury vapor plasma."

The American Radio Relay League's technical department will conduct tests on sample bulbs as soon as they are available.

- The ARRL Letter, 6/11/92

ANNUAL EAU CLAIRE HAMFEST! and Computer Expo

Sponsored by:

Eau Claire Amateur Radio Club

Saturday, July 18, 1992

\$3.00 at Door

7:30 a.m. to 2:30 p.m.

Drive in set-up with no steps

Packet Meeting at 10:30 a.m.

FAIRGROUNDS BUILDING IN CHIPPEWA FALLS, WI.

* 8' Tables \$3.00, Dealers \$5.00

* FREE PARKING

* FREE COFFEE

* GOOD FOOD AT GOOD PRICES

* Advanced Set-up from Noon Friday

Building Security Friday Night

* DOOR PRIZES

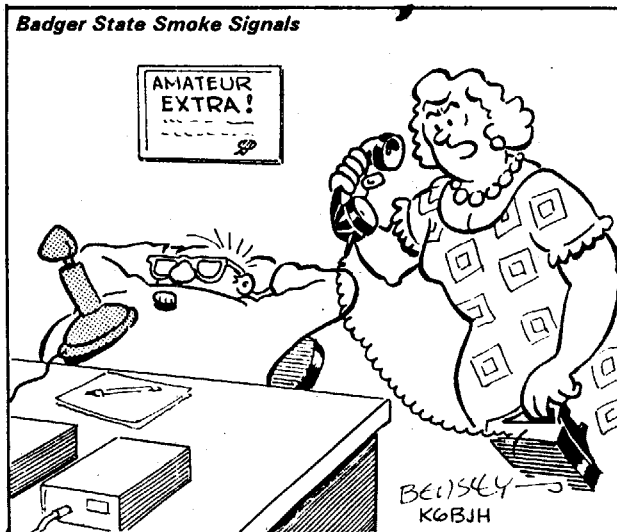
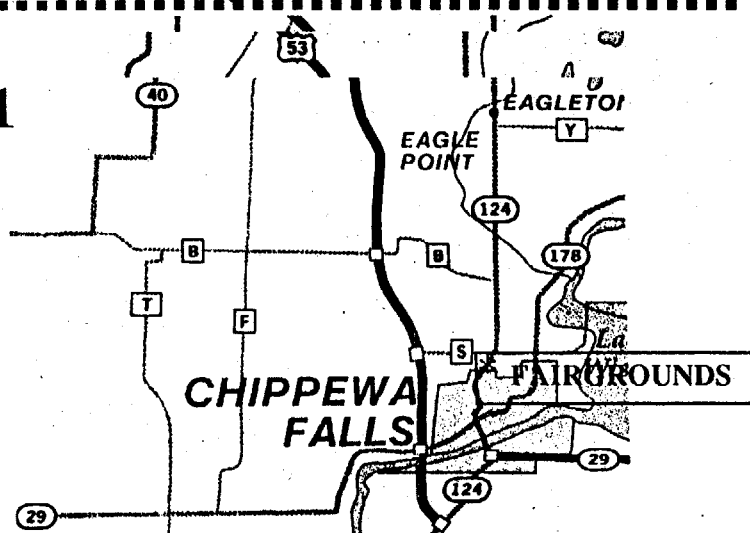
* COMMERCIAL EXHIBITORS

Amateur License Tests Given From 9 a.m. to 1 p.m. -- all walk ins

Talk-in on 146.31/91

Table Reservations:

Contact: Liz Searing N9EQR
1129 McKinley Rd
Eau Claire, WI 54701
or call (715) 834-1303



I'M CALLING THE FCC --- THERE'S NO WAY YOU COULD HAVE MOVED FAST ENOUGH TO COPY 20 WORDS PER MINUTE!

The Amateur Radio Spectrum Protection Act of 1991: We Can Get it Passed - if We Try

The Amateur Radio Spectrum Protection Act of 1991 is nearing a critical juncture. Your renewed support can provide the push needed to secure passage in Congress. That is the sub-heading of a story in the July issue of *QST* titled "Man the Word Processors", which reminds radio amateurs that two important bills, H.R. 73 and S. 1372, are *not* dead - and they don't have to die. If radio amateurs will act promptly, and in large numbers, we have a good chance to see these bills, which would protect our frequencies from those who would take them from us (remember 220-222 MHz?), passed and become the law of the land.

According to the *QST* story, written by Perry Williams, W1UED, the ARRL's Washington Area Coordinator, the fact that the Federal Communications Commission is less than thrilled with the bills is not a well-kept secret, but its opposition doesn't necessarily mean that the bills are dead; the bills can only "die" from lack of action by the Congress.

The story says, "...the League's Washington team continues to make rounds on Capitol Hill, urging Committees and Members to support the bills. A renewed round of communications from ARRL Members [and ALL other hams, too - BSSS ed.] could well put us over the top. Some thoughts that can be worked into your letters include:

- The amateur bands are to spectrum as national parks are to land, the last vestige reserved for the public to use without paying rent.
- Amateur emergency communications efforts are worth preserving; there's a string of crises going back 80 years where amateurs have made the difference.
- Amateur Radio is a practical test-bed for new technologies, providing myriad communications points between which new gear can be proven - often to be simplified and made more affordable in the process.
- No private-sector "commercial" opposition to the

Wisconsin's Congressional Delegation: How They Stand on H.R. 73 and S. 1372

SENATORS: Neither of Wisconsin's Senators in Congress has signed as a co-sponsor of S. 1372, the Senate version of the Amateur Radio Spectrum Act of 1991. They are: Robert W. Kasten, Jr. (R) and Herb Kohl (D).

REPRESENTATIVES: The following Representatives have signed as co-sponsors of H.R. 73. Names are followed by party affiliation and their Wisconsin Congressional District:

Steve Gunderson (R-3)
Gerald Kleczka (D-4)
Tom Petri (R-6)
Toby Roth (R-8)

These representatives have not signed as co-sponsors of H.R. 73:

Les Aspin (D-1)
Scott Klug (R-2)
Jim Moody (D-5)
David Obey (D-7)
F. James Sensenbrenner, Jr. (R-9)

bills has surfaced; a co-sponsor isn't faced with choosing between two sets of constituents.

- The Act needs no appropriations of hard-to-find dollars.
- Most amateur spectrum - 95% of our frequencies below 24.25 GHz - is shared with the government and

"....For amateurs to believe that the legislation has no chance of passing sets up a self-fulfilling prophecy: If no more amateurs write to their Senators and Representatives, the bills will likely expire with the 102nd Congress in the fall...."

- Perry Williams, W1UED
ARRL Washington Area Coordinator

some private-sector users; preserving it for amateurs doesn't lock out other users.

"Cosponsorship of the Act provides a clean, non-controversial issue for Members of the Congress this year."

As of May 27, Senator Al Gore (D-TN) has 28 Senators cosponsoring S. 1372, and there are 177 Members of Congress signed on to H.R. 73, introduced by Representative Jim Cooper (D-TN).

Neither Senator from Minnesota has signed as cosponsor of S. 1372. Minnesota Representatives who have signed as cosponsors of H.R. 73 are Jim Ramstad (R-3), Gerry Sikorski (D-6), and James Oberstar (D-8).

Sample letters follow this story. When you write to your Senators and Representatives, please send copies to Perry Williams at ARRL Headquarters, 225 Main St., Newington, CT, for followup by the League's Washington team. If your congressperson has already signed as a cosponsor, please send a thank-you letter to him or her. □

Suggested Letters

When writing to your Senators, use the following letter as a minimum guide. Adding thoughts of your own will increase the letter's effectiveness.

[Your Address]
[Date]

The Honorable [Name]
U.S. Senate
Washington, D.C. 20510

Dear Senator:

As a concerned voter in [Your State], I strongly urge you to go on record as a cosponsor of S. 1372, the "Amateur Radio Spectrum Protection Act of 1991."

Please help us get this bill through Committee and the Senate. Thank you for your support.

Sincerely,

[Signed]
[Your name]

When writing to your Representative, use the following letter as a guide:

[Your Address]
[Date]

The Honorable [Name]
U.S. House of Representatives
Washington, D.C. 20515

Dear Representative [Name]:

As a voter in your constituency, I strongly urge you to go on record as a cosponsor of H.R. 73, the "Amateur Radio Spectrum Act of 1991."

Please help us get this bill through Committee and the House.

Thank you for your support.

Sincerely,

[Signed]
[Your Name]

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The PORTA-LINK can easily be plugged into an ICOM Handheld. Simple VOX design uses only the speaker jack and microphone input without modification.

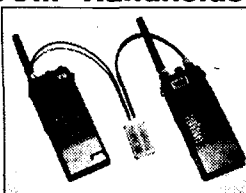
- Use SINGLE as low power hamfest or emergency repeater.
- Use DUAL as two-way crosslink or one side as a repeater.

PORTA-LINK SINGLE - \$29 **PORTA-LINK DUAL - \$65**

IL deliveries, 6.5% tax. S/H-\$2.75 or C.O.D.-\$6.50
M. BOHNHOFF

Use as a one-way crosslink or repeater. Handle Talkies not included. *ICOM reg. ICOM U.S.A. not M. Bohnhoff, Inc.
Write for free product catalog.

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708-918-7330



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SPONSORED BY
THE SOUTH MILWAUKEE AMATEUR RADIO CLUB INC.

SATURDAY JULY 11, 1992 7:00 A.M.

AMERICAN LEGION POST 434 - OAK CREEK, WI

BUY - SELL - SWAP

FOOD - DRINKS - PRIZES - CAMPING

FREE BEER

HAPPY TIME

FREE SODA

TICKETS: \$4.00

PRIZES!!!

1st PRIZE: \$100

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**PLUS
HOURLY PRIZES!**

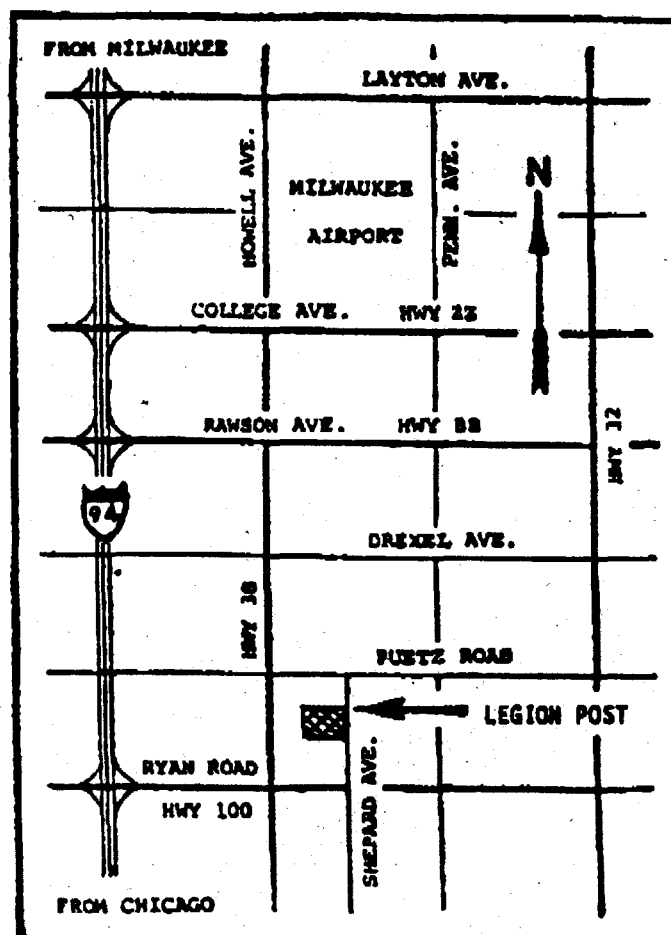
TALK-IN 146.58

WA9TXE/9

phone

(414) 762-3235

ext. 58



Watertown Amateur Radio Club Takes Trophy at Three-Club Get-Together



On March 9, the Rock River Radio Club, the Watertown Amateur Radio Club, and the Green Fox Amateur Radio club gathered on a wintry evening for an evening of chowing down and fun. Members of each club gave a presentation after the dinner, followed by a vote for the best presentation. This year's award was won by the Watertown club, whose presentation about electronics was given by Bill Kimble, WA9OAY. Awarding the trophy to Bill (at left in the photo) is Rock River Radio Club Secretary Jack Klein, W9YOA. The Rock River presentation, a chalk talk and live demo of 440 MHz to 2-meter crosslinking, was given by Mark, N9KQV, and Bruce, N9LMU. A demonstration and slide show about county hunting was given for the Green Fox club by Carl Plotz, WB9JSW.

- Photo and information from Duane Haas/W9BCV

Hams Help in Tornado Disaster

Continued from front page

east of Madison began reporting high winds and large hail shortly after 12:30 p.m. During that 20-minute silence, hundreds of homes in southeastern Dane County had been damaged or destroyed.

At 12:21 p.m., a tornado had touched down near Oregon and, traveling northeast, carved a quarter-mile wide, 14-mile long path of destruction. A total of 204 homes were affected, with 46 completely destroyed and another 42 receiving more than \$25,000 damage. Miraculously, there were no deaths. Although scores were injured, the most serious of these was a broken leg suffered by an inmate at the Oregon Correctional Institution. The most devastated areas were immediately cordoned off by the Dane County Sheriff's Department, together with units from Oregon, McFarland, and Fitchburg fire and police.

The Red Cross in Madison began

dispensing disaster assistance almost before the storm passed from Dane County. Red Cross employee and ham Carol Hoke, NS9L, contacted South-Central Wisconsin Skywarn from the Red Cross Communications Center at 1:15 p.m. on the 146.88 repeater. She notified net control of an anticipated need for communications assistance. John Offerdahl, KC9XH, maintained the Skywarn Net, while Dane County E.C. Jim Stone, K9JVP, alerted the Dane County Amateur Radio Emergency Service and, together with Carol Hoke, NS9L, moved disaster operations to the CWRA 146.94 repeater. Thereafter, disaster communications were coordinated on that frequency from the Red Cross Communications Center.

Throughout the balance of the Skywarn Net, John, KC9XH, regularly announced the need for hams to assist in disaster communications. Hams from both Dane County ARES and the Four Lakes

Special Event Stations

Experimental Aircraft Association Convention, Oshkosh, Wisconsin

The Fox Cities Amateur Radio Club plans to operate Special Event Station W9ZL during the Experimental Aircraft Association's 1992 Convention and Fly-In July 31 through August 4 at Wittman Field in Oshkosh, Wisconsin. The station will be operated from the Pioneer Airport at the E.A.A. Aviation Museum on 10 through 40 meter phone (and more). Visitors and guest operators are welcome.

If you work the station, send your QSL card with the contact number to Wayne Pennings, WD9FLJ, 913 N. Mason St., Appleton, WI 54914. You will receive a special 8" x 10" certificate.

Information for Amateurs Attending the Convention

On-ground convention information will be provided on two meters by the Fox Cities club. Operation will be on 146.52 MHz simplex. A message board will be located at the Pioneer Airport.

Two-meter repeaters in the area are: Oshkosh, 147.24+; Fond du Lac, 147.09+; Green Bay, 147.12+; Appleton, 146.76-; 145.14-; and 145.33- (PL 107.2). For severe weather information, monitor 145.19- (PL 107.2) (wide area); 147.24- (local); and 145.15 (local). A "+" indicates transmit up 600 kHz, and a "-" means transmit 600 kHz lower than the output frequencies shown.

- From the Fox Cities ARC Newsletter via Rich Regent, K9GDF

U.S.S. Cobia Submarine, Manitowoc, Wisconsin

On August 22 and 23, 1992, the Mancorad Radio Club will operate W9DK aboard the U.S.S. Cobia, a World War II submarine. Operating times are from 1400Z to 1700Z. Suggested frequencies: 7.250, 14.250, 21.350, and 28.450 MHz.

For a special QSL card, send your QSL and an SASE to Mancorad Radio Club, P.O. Box 204, Manitowoc, WI 54221-0204. Please include your contact number of the front on the envelope in which you send your card.

- Charles F. Smith, Vice-President, Mancorad Radio Club

Amateur Radio Club (FLARC) provided a majority of those hams responding. Other hams from Dane, Rock, Green, and Jefferson Counties also assisted. Use of the FLARC club call, W9JZ, was implemented by FLARC President Jake Kitzinger, KE9XZ, to simplify handling of traffic by rotating net control operators.

Moving swiftly, Red Cross personnel, together with Jim Stone, K9JVP, and Mac McNally, W9NLA, established the first of three shelters at the Oregon Village Hall by 3 p.m. Other shelters at the Fitchburg Community Center and McFarland High School were in operation by late afternoon. Hams also were assigned to Red Cross food wagons and disaster assessment teams. Working on a rotating basis, they provided night and day communications throughout the disaster.

Twenty-six hams were reported to have been assigned in one way or another with the disaster. Unfortunately, an exact log of participants was not available for this story. Many more were undoubtedly monitoring the net frequency - silently ready to volunteer if they were needed. All of these hams, regardless of club

affiliation, deserve a great deal of thanks. Without the expertise supplied by ham radio, the disaster would have been even worse. □

Storm Statistics

The National Weather Service Office in Madison reported that the tornado which came through Dane County had a path width of a quarter-mile, and a length of 14 miles, although not continuous due to "tornado leapfrogging."

Strength was estimated at F2/F3, with winds estimated at 150 - 175 MPH.

- Tom Weeden, WJ9H

Public Recognition for Hams and Skywarn Net

John Offerdahl, KC9XH, author of the tornado story, was interviewed about the Amateur Radio Skywarn Net in a story broadcast on WMTV, Channel 15, in Madison. Hams were credited with helping provide information crucial to saving lives. □

From the Editor

- Volunteer Examiner teams are asked to send their exam schedules to *Badger State Smoke Signals*. We often receive comments from teams about the good response they get from readers wishing to take exams. Schedules should be sent to the "What's Happening" editor, Ken Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901.

- We do NOT encourage this, but last-minute material for publication that is **IMPORTANT** may be FAXed to (608) 356-0321. The FAX machine is not at a BSSS staffer's location; it is in a store in Baraboo.

We DO have a modem. If you wish to send us a file, it must be arranged in advance. The parameters are 1200 baud only, 8-bit word, no parity, and one stop bit (8N1). Of course, the file should be in ASCII format. The editor's telephone number is (608) 356-4031.

- Jim Romelfanger, K9ZZ

ATLAS and Atlas

This photo, taken during the STS-45 mission March 24 to April 2, 1992, shows ATLAS experiment pallets backdropped against the Atlas Mountains. ATLAS stands for Atmospheric Laboratory for Applications and Science. (The experiment failed due to a blown fuse.) Taken from a point over Mali in the western Sahara, the north-west-looking view shows dunes in the Igudi dune sea. The view also shows the fringe of the Atlas Mountains (technically, the Anti-Atlas) dimly in the far distance. The edge of a large sandstorm can be seen. The sandstorm transported sand and dust to Yugoslavia and beyond.

- NASA photo

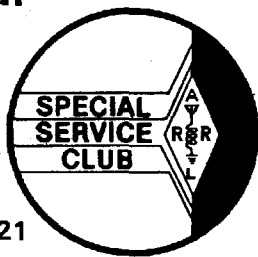




Riverland Amateur Radio Club

Dick Low, K0JYB,
Secretary

Club mail address: P.O. Box 621
Onalaska, WI 54650



MEETING MINUTES JUNE 2, 1992

The June meeting of the Riverland Amateur Radio Club was called to order by President Walt, AA9AW, at 7:00 p.m.

The members and visitors introduced themselves.

The reading of the minutes of the May meeting was dispensed with pursuant to a motion by Kent, W9LZQ, and seconded by Rick, KV9U.

The treasurer's report was given by Duane, W9HWQ, and accepted as read.

It was announced that Charlie Ferris is in the Hillview Nursing Home.

COMMITTEE REPORTS

Special Interest Group Coordinator Kent, W9LZQ, informed us of a meeting of the D-Fing group on Monday, June 8th, at 7 p.m. at the downtown Country Kitchen, 7th and King St.

Van, WA9FIO, reported that the Audio Delay board has arrived and will be installed. Barring a storm warning, the repeater will be down from Thursday evening June 4th until Saturday June 6th.

Trailer Committee Chairman Greg, KA9FOZ, reported that the trailer is badly in need of a good cleaning inside.

Field Day (FOXTROT DELTA) Chairman Bill, KE9XQ, reported that we have 3 full time and 3 part time ops., and still need a Novice op.

Program Chairman Feroz, WU9N, reminded us of the June 13th RARC picnic on Grandad's Bluff, and informed us that Jule, KA9UJL, will give a ten minute talk on wiring the shack at our next meeting on July 7th. We will have a MINI SWAP FEST after the meeting.

Skywarn Chairman Kent, W9LZQ, reported on the Packet installation at the Weather Bureau, having had contacts from Tomah and Winona.

NEW BUSINESS

Dean, KQ0C, moved that we give the sum of ten dollars each to the Picnic and to Field Day from the coffee fund. Motion seconded and carried.

A motion was made by Feroz, WU9N, that we re-establish the Award Program. The motion was seconded by John, KA9ETH, and a discussion followed. A motion was made by Van to commit and to define title, nature, and condition of the award. Bill, KE9XQ, was appointed as chairman, and will select a committee. Motion carried.

Art, W0JDC, gave a very nice presentation on grounding in the shack.

The meeting was adjourned at 7:59 p.m.

The main program was a video presentation of the Hillsboro Balloon flight, given by Kent, W9LZQ.

Submitted by Dick, K0JYB

MEETING ATTENDANCE

Walt Altus	AA9AW
Duane Fruechte	W9HWQ
Dick Low	K0JYB
Karl L. Olberg	W4ST
Tim Timmerman	Guest
Feroz Ghouse	WU9N
Bob Wilson	N9LZK
Joe Mezera	WA9SOQ
Rick Williams	KV9U
Judy Williams	N9LGV
Clarence Crum	N9NXW
Charlie Burch	KA9UUK
John Jorenby	KA9ETH
Arby Boomer	WF9T
George Kroner	KE9PL
Brian McCarty	N9IWP
Thomas Lightfoot	N9OKF
Brent Atchison	Guest
Roger Christenson	Guest
Greg A. Miller	KA9FOZ
Mike Tessmer	N0BSH
Jim Darnell	Guest
Kent Helman	W9LZQ
Tom O'Brien	WB9BJQ
Van Elston	WA9FIO
Dean Summers	KQ0C
Art Osborn	W0JDC
Ernie Gershon	K9ZVU
Bill Wood	KE9XQ
Dan Abts	Guest
Hugh Barker	KA0EJZ
Dennis Heifner	N0BKW
Ray Wakeen	WA9HHM
Nook Bentzen	K9EGO
? Bisping	Guest

Eau Claire Amateur Radio Club

Don Franzmann, W9NFJ, Secretary

2728 Marilyn Drive • Eau Claire, WI 54701

MEETING MINUTES JUNE 9, 1992

The meeting was called to order by Vice-President Craig Barnes, N9NCW, at 7:30 p.m. The secretary's and treasurer's reports were read and approved.

Don, W9NFJ, reported on correspondence with N9GHZ regarding the upcoming High Ground Memorial celebration to be held near Neillsville on July 4th. Jim, N9LIJ, will coordinate the club's participation in this event.

Word was received regarding the possible use of the Public Access Channel

on the local cable TV system for the promotion of our Hamfest. Jeff, N9JMB, agreed to look into the matter.

Joe, KB9R, requested information regarding club-owned equipment for insurance purposes. Bob, W9BUG, agreed to research and inventory the equipment.

The remainder of the meeting was taken up in discussion of the forthcoming Hamfest and signing up for various duties.

The lunch committee for next month is Don, W9NFJ, and Willie, WA9BZU.

Respectfully submitted:
Don Franzmann, W9NFJ, Secretary

Section Managers Elected in Indiana and Maine; Wisconsin, Illinois Posts Uncontested

Ballots in American Radio Relay League Section Manager elections for Indiana and Maine were counted May 19 for terms of office beginning July 1, 1992.

In Indiana, incumbent Peggy Coulter, W9JUI, defeated former SM Bruce Woodward, W9UMH, by 813 to 370.

In Maine, incumbent Jeff Weinstein, K1JW, lost to challenger Michelle Noel, WM1C, by a margin of 105 to 493.

SM elections were not contested in six other sections, and the following sole candidates were declared elected:

Illinois Section: Sharon Harlan,

Racine Megacycle Club

Arne Moxness, KA9ZPY, Secretary

3345 Newman Road • Racine, WI 53406

MEETING MINUTES JUNE 8, 1992

The June 8th meeting of the Racine Megacycle Club was brought to order by our president, Brian Roosa, WD9FRH, at 7:30 p.m. Twenty-two members were present.

The treasurer's report was given and approved. We currently have a balance of \$274.86 in our account. Another tent had been purchased for Field Day for use as a food/social tent.

The minutes were corrected and approved as written in the *Badger State Smoke Signals*.

OLD BUSINESS

Dick, W5ONL, reminded us that our July 13th meeting would be a picnic at his home. Those attending should bring a dish to pass and whatever you want cooked on the grills. He suggested we bring lawn/folding chairs along. The club will provide refreshments. Members on the committee are Fern Fisher (W9LCJ), Cheryl Miller (WS9P), and Dick Sisson (W5ONL).

On June 20th at 9:30 a.m., Dennis (WB9SVM) will hold another logging review at the Red Cross Building to ac-

quaint those who will log at Field Day with the new program we'll use. In addition, we will try to repair the beam on the R.C. Building that morning.

On August 23rd (Saturday), we are invited to participate in a picnic with other Racine radio clubs at Decision Farms on 6 Mile Road. They ask that children NOT attend.

Upcoming meetings include the following programs:

August: ARRL video on antennas

September: Meet at the Safety Building - 911.

October: Bob Jensen (W0WLN), World War II/Part 2.

NEW BUSINESS

Steve (K9ZL) and Gene (WA9ZKY) have many feet of 75Ω coax (3/4" diameter). If interested, give either a call.

The "goodie box" was won by Fern Fisher.

The meeting was adjourned, and Major Bob Jensen presented an informative program on his experiences as a POW in a German camp during WW II.

Submitted By:
Cheryl Miller, WS9P

Sheboygan County Amateur Radio Club

Kurt Diedring, WB9GLB, Secretary

1603 North 16th Street • Sheboygan, WI 53081

MEETING MINUTES JUNE 9, 1992

The June 9, 1992 meeting of the Sheboygan County Amateur Radio Club, was called to order at 7 p.m. by President Ron Brey, N9ITM.

Minutes of the May Meeting were read by Kurt, WB9GLB. The Treasurer's Report given by Brad, N9IXX, and both were approved as read.

Operators were solicited for Net Control for the next month's Monday evening Net.

Rob, KB9AFT, reminded everybody to be on the alert for the upcoming Simulated Tornado Exercise on June 13, 1992.

OLD BUSINESS

1. Thanks was given to all operators helping on May 16, at the American Diabetic Association BIKE RIDE PLUS.

2. Tentatively, there will be a Fox Hunt scheduled for the month of September 1992.

3. Club Dues are due this month, otherwise there might be a lapse in the delivery of our Newsletter and the Badger

State Smoke Signal.

4. Wally, N9EZI, says thanks to everyone that helped him go get his station back on the air after his QTH was struck by lightning.

NEW BUSINESS

1. In the recent Wisconsin QSO Party, the Club was recognized for good participation and Ron, N9ITM, thanks every single operator for an outstanding job.

2. The new Officers of the club for the coming term 1992/93 were introduced:

President: Chad, N9HMR
Vice-President: Penny, KB9BJM
Treasurer: Luiz, K9HUF
Secretary: Steve, KB9HKG
Board Member: Jack, WB9GTX
Novice Rep.: Chris, KB9HQV

After adjournment of the meeting, a video of an earlier Foxhunt was enjoyed by all.

Respectfully submitted:
Kurt Diedring, WB9GLB, Secretary

Computer

By Rich Regent, K9GDF
5003 South 26th Street



Tips

Milwaukee, WI 53221

DRY RIBBONS

Q. Is there anything I can do with dry or malfunctioning ribbon cartridges?

A. Malfunctioning or torn ribbons should be replaced before they damage the print head. But dried ribbons can be re-linked by

specialty companies or you may do it yourself. Carefully snap apart the ribbon cartridge, they aren't glued together. Spray WD-40 on the stored area of ribbon and let it permeate throughout the ribbon overnight before using. The print will be dark again, plus the lubricant helps the print pins too. □

WB9SFT; Northern Florida Section: Rudy Hubbard, WA4PUP; Oregon Section: Randy Stimson, KZ7T; Santa Clara Valley Section: Steve Wilson, KA6S;

Vermont Section: Mitchell Stern, WB2-JSI; and Wisconsin Section: Richard Regent, K9GDF.

- The ARRL Letter, 5/26/92

Taylor County Area Amateur Radio Club

Mike Schoenfuss, N9GHZ, Secretary

Abbotsford, WI 54405-0401

TAYLOR COUNTY AREA AMATEUR RADIO CLUB MEETING ANNOUNCEMENT

The next regular meeting of the Taylor County Area Amateur Radio Club will be held on Thursday, June 11th at 7 p.m. in the Emergency Government meeting room/Red Cross office, located in the basement of the sheriff's annex to the Taylor County Courthouse, corner of 2nd and Ogden Streets, Medford, WI. Talk-in on 147.75/147.15 repeater.

EXCERPTS FROM MINUTES OF MAY 14, 1992 TAYLOR COUNTY AREA ARC MEETING

Meeting was called to order by President N9GEN. Present were N9GHZ (Abbotsford), KB9BLV (Dorchester), N9LIE and N9LHY (Sheldon), N9MEH (Stanley), N9LIU (Holcombe), N9IDW (Lublin), and N9FZD, and W9QHI (Medford).

Minutes of 4/9/92 meeting were read by Secretary N9GHZ. There was no treasurer's report, as Treasurer WD9FWP was not present.

The VE test session held at Medford on 4/11/92 was discussed. A date for the next VE test session in Medford will be set at the June meeting.

N9GHZ reported that he is still trying to get a Novice and Technician theory license preparation course started this summer in either Abbotsford or Owen, with classes to start on May 26th if enough sign up.

The search and rescue operations on April 20th and 21st for three young children lost in the woods in the Jump River area of Taylor County were discussed, as was a disaster drill conducted in Chippewa County on May 9th.

N9FZD reported that he needed one or two operators to assist with communications for the St. Jude Bike-A-Thon in Medford on May 16th.

N9GHZ reported that WB0KIN from the Marshfield Area Amateur Radio Society needs operators to assist with communications for the June Dairyfest bike race on May 30th.

Discussion was held on non-profit status for the club and a potential change in the club's name.

N9GHZ reported that a reply was received from the Wisconsin Public Service Commission, dated 5/11/92. They indicated they would not consider changing the rate being charged for our repeater autopatch telephone service from a business to a residential rate. A letter was sent to the Citizens' Utility Board on 4/30/92.

Motion by N9LHY, seconded by N9FZD, to reimburse N9GHZ for \$3.96 for postage costs to send copies of all documentation to the Citizens' Utility Board and for a certified letter to the Wisconsin Public Service Commission. Motion carried.

A letter was sent to KA9UXN on 4/27/92 regarding his pledge towards the new repeater project. His pledge has not yet been received.

Motion by KB9BLV, seconded by N9GEN, to approve the borrowing of the club's 2-meter AEA Isopole antenna to N9IFA for use in conjunction with a Boy Scout summer campout during the second week of July, 1992. Motion carried.

N9GHZ displayed a black and white camera/monitor set that is being donated to the club by W9FPE. The membership tabled any decision on what to do with the camera until a future meeting. A letter will be sought from W9FPE indicating the transfer of ownership.

A thank you note was sent to the Marshfield Area Amateur Radio Society on 4/27/92 to acknowledge their donation towards our new repeater receiver project.

N9LIE indicated that he was not interested in purchasing the Spectrum Communications courtesy tone beeper board from the club. N9GHZ will start advertising it on area swapnets.

N9GHZ reported on the proceedings of a 5/13/92 meeting at Neillsville of the July 4th Highground special event station planning committee. Hams attending the meeting included N9MHV (Neillsville), N9GHZ (Abbotsford), W9FPE (Willard), and W0KIN and KA0TTB from the Marshfield Area Amateur Radio Society.

No reply has yet been received to the

club's application for a grant from the AnnMarie Foundation for purposes of repeater improvement projects.

N9GHZ reported on a display of QSL cards that he put up at the "International Night" social hosted by the Abbotsford Jaycee chapter at the Abbotsford City Hall on May 9th. The cards, including both 2-way Amateur Radio QSLs as well as shortwave broadcast QSLs, were provided by NZ9U and KE4FE. The colorful display of cards and banners drew a lot of attention from those in attendance, and generated a lot of questions about what they were, what they were used for, and how they had been obtained. It was a good opportunity to educate members of the public about Amateur Radio in general.

Meeting adjourned at 9:12 p.m.

RESULTS OF EXAM SESSION HELD AT MEDFORD, WIS. ON 4/11/91

A very successful exam session was held with a total of 17 examinees being tested. They came from a wide area, including Marshfield, Wis., Rapids, Wautoma, Park Falls, and Rhinelander. There were five local people taking exams: N9MEI, N9NDT, N9MEO, Eric Newman, and Roland Sacho. N9MEI and N9MED both passed the 5 WPM Morse code receiving exam. Roland missed the Novice theory exam by only one question. There were a total of five Volunteer Examiners working at the exam session. Many thanks to N9BDL and NS9Q from the Tomahawk VE team, who came down to assist with the testing. VEs from the Taylor County Area who assisted at the session were N9GEN, Medford, assisting with his third exam session, and NZ9U (Dorchester) and N9IDW (Lublin), both assisting with their first exam session.

CONGRATULATIONS TO.....

• Nathan Newman, N9NDT, Gilman, and Tom Sahr, N9MED, Lublin, both 8th grade students at Gilman Middle School, who had perfect attendance records for the third quarter. N9MED also had a perfect attendance record for the entire school year to-date.

• N9NDT and N9MED, who made the honor roll at Gilman Middle School for the third quarter. N9NDT had a 3.00 or higher GPA and N9MED had a 3.67 or higher GPA.

• N9NDT, who passed the 5 WPM Morse code receiving test at the VE test session held at Marshfield, WI on May 9th.

• Jessica Winzenried, KB9AMX, Colby, a freshman at Colby High School, who was named to the "A" Honor Roll for the third quarter of the 1991-92 school year.

• Jessica, KB9AMX, who was awarded a silver medal in prose reading as a member of the Colby High School forensics team at the State Forensics Contest in Madison on April 10th.

• Nathan Newman, N9NDT, Gilman, on the occasion of his confirmation on April 12th.

• Tom Sahr, N9MED, Lublin, an 8th grader who recently placed second in the National Geography Contest at Gilman Schools. Tom scored only one point lower than the first place finisher and won an inflatable globe for his efforts.

• Nathan, N9NDT, and Tom, N9MED, both members of Gilman Boy Scout Troop 86, which was selected to be the Color Guard and also Escorts for Awards at the National Awards Banquet held March 22nd at Stout University in Menomonie, Wis. Scouter National CEO Ben H. Love was the guest speaker at the banquet. Jim Sahr, N9IFA, Lublin, Tom's dad, is Assistant Scout Master for Troop 86.

MISCELLANEOUS INFORMATION

• TCAARC member Brian Kostick, KB9HCT, has moved from Withee, WI to Rockford, IL. For those wishing to correspond with him, his new address is 722 Plaisance Ave., Rockford, IL 61102.

• Several new Novices in the area have received their call signs, all on 5/11/92: Eric Newman, KB9HTX, Gilman, and Al Hughes, KB9HTW and Rich Hughes, KB9HTY, both of Thorp. Congratulations to all! □

Do You Have a CB Accent?

Years ago, there was talk on the ham bands about people who had what was called a "Novice accent." This meant that there were certain things beginners in Amateur Radio would say and do which marked them as new kids on the street. Today, we have what might be called a "CB accent" on the ham bands.

That such an accent would appear on the ham frequencies is understandable, since many of the present-day ham operators have come up from the Citizens Band. When the eleven-meter band was taken away from the ham population and given to the general public, it opened the door to what might best be called an undisciplined service. As a result, CB became a service characterized by chaos. When it became intolerable to some CB operators, they became highly motivated enough to secure their amateur license. While their presence is certainly welcome, various traits have come along with them. And these traits amount to a CB Accent.

This accent will often be recognized by the request, "What is your handle?" To the best of our knowledge, handles are on coffee mugs, pitchforks, etc. It is better to say, "What is your name?"

Hams generally try to avoid using the "ten-signals," as in "What is your twenty?", or just plain "What is your twenty?" Hams try to be more common by asking where a person lives, or asking where the other ham is if he or she is mobile.

Hams usually try to say "over," instead of "over to you." And, good amateur operators try to be cordial and refrain from vulgarities.

Tuning across the amateur bands these days, vulgar language appears to be very commonplace. Perhaps this is true in society in general, but somehow it is detrimental to the purpose of Amateur Radio. Vulgar speech may have been common to CB, but it has no place in the ham fraternity. Individuals unable to control their tongues do a disservice to our ranks.

In signing off, CBers often say, "Threes to you." Amateur operators will probably say "73," and let it go, keeping in mind that "73" is plural ("best regards"), so "73s" is not proper. ("73s" would mean "best regards.")

Becoming a real ham radio operator takes a little time and effort, especially in eliminating a CB accent. Good luck!

- Dan Schobert, W9MFG, Plover, WI

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WATTS SNOO



WB9QFW 2-Meter Repeater 146.07-.67 and Club Station

P. O. Box 847 • Plover, WI 54467

MEETING MINUTES JUNE 10, 1992

These are the proceedings of the June 10, 1992, meeting of C.W.R.A., Ltd. The meeting was called to order by our recently elected Vice-President, Debbie, N9EIL, at 7:30 p.m. local time. 16 members were present, with the roll as follows:

N9EIL	Debbie Kroll
KA9ACE	Jim Benak
W9NN	Bob Baird
K9DB	Paul Nelles
N9NOG	Joann Dix
N9JQU	Dave Olson
N9JQR	Frank B. Podach
N9JW	Joe Larson
KA9TTU	Joe Mangal
KA9FAS	Mary Eiden
KE9MA	Gene Kroll
WD9JID	Mike Eiden
W9BCC	Frank Guth
KB9GXV	Mike Urban
KF9BG	Ray Dix
KF9HQ	Russ Fritz

The first official duty to be performed by our new V.P. was the announcement of the passing of two local hams, Bill Hebal, W9NYI, and Theodore Salvin, WB9MAX. A moment of silence was observed for them before proceeding with the meeting.

Dave, N9JQU, gave a short overview of the Special Olympics operations which were conducted the previous weekend, and a big Thank You to all those present who had participated in the event. He also commended two of those present, Ray and Joann Dix, KF9BG and N9NOG, for their fast actions in assisting an athlete who had had a seizure, and administering first aid until medical personnel arrived. Ray and Joann are trained First Responders and their training proved valuable during this incident.

W9BCC, Frank, thanked Paul, K9DB, and all involved, for a plaque that was presented to him at the closing ceremonies in recognition for the years of service he gave for the Special Olympics. Congratulations, Frank.

The Swapfest was next on line, with a

little update being presented to the members as well as a call for volunteers to help set up and take down the dealers and tables.

Paul, K9DB, asked the club if there were any objections to the Rib Mountain Repeater Ass'n selling raffle tickets at its table. The proceeds are to be used to upgrade their controller and interface on the repeater. Since this system benefits all in the area, he was given our "blessing".

The topic of Field Day brought out a lot of discussion, which was a surprise, since it is only a couple weeks away. The main concern was for someone (an adult) to be present at the site at all times during the event. A volunteer was finally found to be there from Midnight to 7:00 a.m. after someone proposed that we might consider cancelling our Field Day plans and just operate from the club station. After much debate, it was decided to continue with our original plans and hold the event at the Little River Park.

The July 8 meeting will be held at the Central Wisconsin Airport (hopefully), and will be followed by a tour of the new control tower. The location of the meeting is still uncertain, so tune in to the A.R.E.S. net on Monday nights at 9:00 for further details (and possibly on packet).

Our annual August Foxhunt will be held on Aug. 16 at 2:00. Anyone interested in participating should meet at the University parking lot across from the club station (the tall smokestack on Maria Dr. behind Kmart). There will be a get-together at Bob Baird's house afterwards starting around 4:00, or when you show

up. It is open to all, not just the "hunters", but it is BYO (F, B, Etc). More details as the event approaches.

Mike, KA9LAQ, then took the floor with a few announcements, the first was that there will be a special events station operating from the High Ground Memorial on July 4. You can get in contact with him for info on how to get to operate the station during the event.

He also informed the club that Dean Holbrook, KB9FSP, has applied for the frequency of 147.255 and plans to put a repeater up in the Rosholt area.

While on the subject of repeaters, Mike also mentioned that he is planning to update the autopatch list in the near future. Anyone who has paid their dues that is not on the list should contact him ASAP.

The insurance issue was brought up, with a couple people providing information as to rates, coverage, etc. With estimates running from \$340 and up per event, further investigation is being pursued.

W9BCC, Frank, announced that the Portage County Youth Soccer Ass'n has asked for the use of our generator on July 18. They have rented it in the past, and it is good public relations for us (not to mention a donation to the club treasury).

Lastly, our ARRL flag has been misplaced after the Special Olympics. Anyone with information on its possible whereabouts should contact Frank, W9BCC.

The meeting was adjourned at 8:25, with no program on tap for the evening.

73 de KA9ACE

New Products



ICOM IC-728 HF TRANSCEIVER

(Bellevue, WA) - At the Dayton Hamvention, ICOM America introduced the new IC-728 HF all-band transceiver with high performance features previously available only on higher priced models. List priced under \$1,100, the IC-728 provides advanced operators, DXers, and Novices alike with features they may not have been able to afford previously, such as triple conversion, tunable memories, receiver passband tuning, and a 100 watt transmitter with speech compressor.

The IC-728 all mode transceiver with a general coverage receiver is packed with more of the features hams purchase a radio for - to hear and be heard.

The IC-728 is the only rig in its class to have **triple conversion** for improved incoming signal quality and better interference suppression.

Passband tuning dramatically improves an operator's ability to capture signals they might have missed otherwise. Even in crowded band conditions, simply push the "PBT" button to narrow the IF passband width, cutting out nearby signals and zeroing in on the one desired.

Speech compressor effectively increases the transmitter output signal strength, giving the extra punch needed to cut through heavy traffic.

Direct digital synthesis, originated by ICOM, is a microprocessor-based tuning circuit that provides the channel selected instantly. DDS also improves carrier-to-noise ratio by blocking interference, and gives the fast switching times needed for packet radio.

Noise blanker reduces pulse-type noise interference instantly.

Band stacking register automatically snaps the operator back to the last frequency and mode he was using. This is ideal for contesting and multibanders.

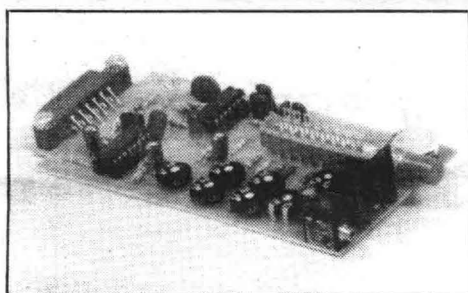
The ideal mobile or Field Day rig, the IC-728 is compact and light weight with an LCD display easy to read in almost any conditions.

Other features include 26 memory channels, three types of scanning, plug-in CW filters, and great ICOM service.

The optional new AT-160 antenna tuner can be "built on" to the IC-728 for optimal base station operation.

IC-728 HF transceivers are available at ICOM dealers now for under \$1,100! Information is available through the ICOM brochure hotline at 1-800-999-9877.

- ICOM news release



MFJ-1271 PACKET RADIO TNC

MFJ Enterprises, Inc. announces the fastest, easiest, and least expensive way yet to join packet action: the new MFJ-1271 TNC, priced at only \$49.95.

If you have a Commodore 64/128 computer and a VHF handheld or HF SSB transceiver, the inexpensive MFJ-1271 is the only additional item you will need for joining packet fun. It works great, is low in cost, and it simply plugs into the Commodore's rear cassette port. It works both VHF packet at 1200 baud and HF packet at 300 baud. This is a true high performance modem/TNC with DCD circuit and adjustable threshold control to reduce noise susceptibility and increase your QSO/connect success, especially on HF bands. A DCD LED is included to indicate when you are receiving signals properly. You can't miss, even if you are a packet newcomer!

The MFJ-1271 also sports remote packet operation, mailbox-like message forwarding and Net/ROM emulation, plus much more. It uses MFJ's famous Digi-com/64 public software, available as MFJ-1293 for \$5.00. This software is also available from many shareware/public domain software companies.

Here is your ideal solution for getting started in packet action on a low budget!

It comes with MFJ's one full year unconditional guarantee.

For more information, or to order, contact any MFJ dealer, or MFJ Enterprises, Inc., P.O. Box 494, Mississippi State, MS 39762, or call (601) 323-5869; FAX (601) 323-6551; TELEX (601) 323-6551; or order toll-free at 1-800-647-1800.

- MFJ news release

Latest FCC Amateur Call Signs

The following is a list of the FCC's most recently issued call signs, as of June 1.

District	Group A Extra	Group B Advanced	Group C Tech/Gen	Group D Novice
0	AA0IP	KF0YP	N0SUJ	KB0KID
1	AA1CH	KD1IR	N1MOA	KB1ACZ
2	AA2JL	KF2IF	N2QZQ	KB2OXR
3	WZ3X	KE3DB	N3MJD	KB3ADA
4	AC4QR	KO4YG	**	KD4OVF
5	AB5FW	KJ5AU	**	KB5SUU
6	AB6LK	KM6VJ	**	KD6JYA
7	AA7PF	KI7DC	N7YRL	KB7PBY
8	AA8HM	KF8UY	N8TYP	KB8OBE
9	AA9ED	KF9JO	N9PQH	KB9HXE
Hawaii	**	AH6LX	WH6GU	WH6CPL
Alaska	**	AL7OF	WL7DN	WL7CFN
PR	**	KP4TR	**	WP4LDW

** All call signs in this group have been issued in this area.

- ARRL Bulletin 55, 6/17/92

FCC Fines Hit Ham, "Freebanders"

Continued from front page

of petitioners sought reconsideration of the policy statement by claiming it was a substantive rule, not a general statement of policy and, therefore, was improperly adopted without comment.

The Commission disagreed, calling the policy statement a "guide," and saying "the Commission and the staff do not intend to be bound by it, and intend to apply the guidelines [flexibility] sic."

The Commission made one change, "on its own motion." It adjusted the policy statement to make the base forfeiture amount for failure to comply with prescribed tower lighting and marking requirements \$8,000 for *all services*.

This change potentially affects amateurs - in the past two years, several repeater owners or trustees have received FCC Notices of Apparent Liability as a

result of borrowing space on commercial towers that were found to be in violation of FCC lighting regulations. Most of those fines were initially set at \$2,000, then lowered or dropped completely.

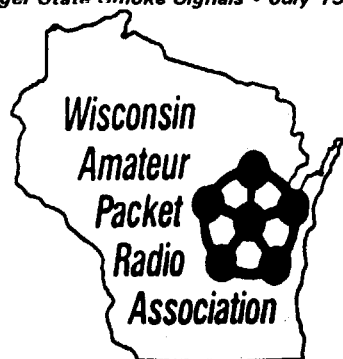
In making the change, the FCC said, "because licensees in various services share towers, it is appropriate that the base forfeiture amount should be the same for all services, and it set \$8,000 as the base amount for such violations in all services. (Previously, the base amount for tower markings and lighting violations had been \$80,000 for common carriers, \$20,000 for broadcasters and cable operators, and \$8,000 for others)."

Commissioner James Quello dissented in the decision to uphold the new fee structure.

- The ARRL Letter, 5/26/92 and 6/11/92

Field Day Photos Wanted!

Badger State Smoke Signals would like to publish photos of your club's or group's Field Day operation. Please send photos to Jim Romelfanger, K9ZZ, 412 1/2 Ash St., Baraboo, WI 53913. Please provide first and last names and call signs of the operators in the photos, the call used for Field Day operation, the name of your club or group, your category of operation, and the location of your operation.



THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)

William Schroeder, W9ZBD
4247 Forest Point Drive • Rhinelander, WI 54501

Steve Loeffler, WB9ZRE, Editor, 123 W. Oshkosh St., Ripon, WI 54971

Wisconsin Amateur Packet Radio Association
June 14, 1992 General Membership meeting

The meeting was called to order by W.A.P.R. vice-chairman, Bob - KA9EOK at 10:07 a.m.

Bob reviewed the agenda to the 30 attendees present: a report on the progress of the 6 meter backbone links in northern Wisconsin, a discussion on state-wide forwarding and problems that have been identified, and the annual election of officers.

Bob reported that the 6 meter links in northern Wisconsin are now operating smoothly. Packet traffic is flowing smoothly through the nodes. The system is now being "tweaked" to maximize efficiency. A new node is to be located on Blackjack Mountain in Upper Michigan and should be operational later this summer. The 6 meter backbone is operating at 2400 baud. Discussion followed about the efficiency of 2400 baud vs. 9600 baud. Bob explained that the 2400 baud backbone is not operating anywhere near capacity, however, W.A.P.R. members are experimenting with 9600 baud for possible updating in the future, should network congestion become a problem. 2400 baud can utilize standard radio equipment, whereas 9600 baud requires specialized and/or highly modified equipment.

Forwarding in the northern and southern halves of the state are relatively reliable, however, interfacing between the two halves of the state is sporadic at best. The bottleneck appears to be the route between W9LZQ in La Crosse and WD9ESU in Lodi, preventing a clean path to/from southern Wisconsin in the western part of the state. This is a long distance forwarding route that suffers from non-backbone digipeating between sites of marginal reception. Reliability is currently poor. W.A.P.R. intends to concentrate on establishing a dedicated backbone between these two BBS stations this year.

The Minneapolis/St. Paul area packet operators are planning to install a 9600 baud link between the twin cities and Prescott interfacing with the 6 meter backbone network in northern Wisconsin. This will provide access to Minnesota's satellite uplink.

Kent - W9LZQ briefed the attendees on linking proceeding in the La Crosse area. An interim 220 site may have to be located between La Crosse and Rochester, Minnesota to provide a consistently reliable link. The 220 link interfaces with Rochester's 9600 baud network.

Steve - WB9ZRE reported on the status of the linking in the southeastern part of the state. Terry - KB9CAQ is the newest MSYS BBS in the state, operating in Appleton. He is in the process of setting up 440 backbone links between N9BKJ in Waupaca and a new node toward Sheboygan with the help of Alan - NF9R. Jerry - KC9BK in Brown Deer has reported that he has reoriented his 220 beam toward WA9KEC for forwarding to/from Milwaukee and Illinois. Larry - WD9ESU is now forwarding to KC9BK, W9LZQ, and WB9ZRE. The loss of WB9TYT has made an impact on operations in the southeast. Joel - K9MLD has been very active in planning reconstruction of the network in this area. By the end of summer, the network in the southeast should be up to par with the rest of the state. Discussion concentrated on the La Crosse to Lodi backbone link regarding equipment and node locations. Ideally, the backbone would consist of 220 MHz 2400 baud nodes located near Tomah and North Freedom. Meeting attendees and packet operators living along this proposed path are encouraged to assist W.A.P.R. in locating suitable locations for these nodes. Tom - N9LLF volunteered to look into possible sites in the Sauk City area if a

suitable site in North Freedom could not be realized.

Bob - KA9EOK asked those present if there was any additional business or reports to be brought before the meeting before a recess was called prior to the annual elections. No responses were made and Bob declared a 15 minute recess of the meeting at 10:50 a.m.

Bob reconvened the meeting at 11:10 a.m.

The current slate of officers and directors was read before the meeting:

Chairman, Bill - W9NNS
Vice Chairman, Bob - KA9EOK
Secretary, Steve - WB9ZRE
Treasurer, Bill - W9ZBD

Director at Large, Dan - WB9TYT
Director at Large, Bob - N9BKJ
Director at Large, Joel - K9MLD

Election of Officers:

Bob announced that Bill - W9NNS wished to convey that he would step down as chairman if another was nominated for the position, but, that he would be honored to serve another term if there were no nominees.

A motion was made by AA9AW to nominate and retain the current slate of officers and close

the nominations. This motion was seconded by W9IHW. The motion was passed by unanimous vote.

Election of Directors at Large:

A question was made from the floor if Dan - WB9TYT had indicated his inclination toward seeking another term. Bob - KA9EOK said that he had tried to contact Dan without success and did not know what Dan's intentions were.

Kent - W9LZQ nominated Bob - N9BKJ and Joel - K9MLD for a second term. W9IHW nominated Kent - W9LZQ

A motion was made to close nominations and to elect the three nominees by unanimous vote. W9IHW seconded the motion. The motion was passed by unanimous vote.

Bob announced that annual membership dues of \$15 per year are now in effect. To remain current as a member of W.A.P.R., send your dues to W.A.P.R. treasurer, Bill Schroeder - W9ZBD, Route 5 - Box 775, Rhinelander, Wisconsin 54501 by July 1.

No further business or reports were brought before the meeting. AA9AW made a motion to adjourn the meeting, seconded by W9IHW. Vote of the motion was unanimous. Bob adjourned the meeting at 11:24 a.m.

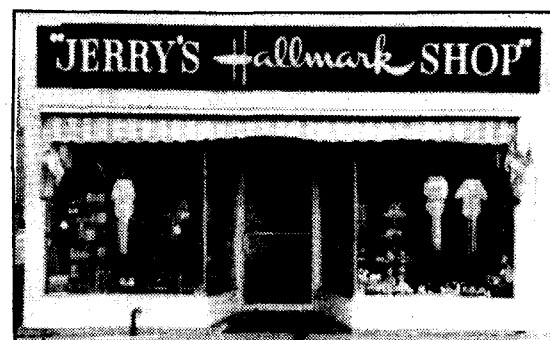
Respectfully Submitted,
Steve - WB9ZRE, WAPR secretary

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Jerry's Hallmark Shop and Simply Amish are at 516 Oak Street and 512 Oak Street in Baraboo, on the east side of Baraboo's historic courthouse square.



☐ R

☐ A

Wisconsin Amateur Packet Radio Membership Application

Name: _____ Call: _____ Home Phone: _____

Address: _____ City: _____ State: _____ Zip: _____

Home BBS: _____ Monitor Freq.: _____ Hours of Operation: Day: ☐ Night: ☐ 24 Hour: ☐

Station: Power: _____ Ant. Gain: _____ Height: _____ TNC: _____ Computer: _____

Station Capabilities: HF: ☐ 2M: ☐ 220 MHz: ☐ 440 MHz: ☐ Other: _____

I operate a Digipeater: ☐ Alias: _____ Packet BBS: ☐ Software Used: _____

Primary Interest in Packet: _____

Please return this form, COMPLETED, with your check or money order for \$15.00 to:

Bill Schroeder W9ZBD, 4247 Forrest Point Dr., Rhinelander, WI 54501

PKZIP WARNING!

There is a file being circulated on BBS's called PKZIPV2.EXE or PKZIPV2.ZIP that claims to be version 2.2 of PKZIP, but in fact it's a simple program not at all related to any PKWARE product.

This program will attempt to erase all files on your harddrive.

As of the date of this writing, the latest version of PKZIP is version 1.10.

If you see the files PKZIPV2.ZIP or PKZIPV2.EXE on any BBS or on-line system, please ask the SysOp of that system to remove the files IMMEDIATELY.

Of course, because of this, PKWARE will never release a version of PKZIP with the version number 2.2. Please note that PKWARE policy is to ship an upgrade to registered users BEFORE making a program available for download.

73, Judy, N6XOT @ W6PW.#NOCAL.CA

Specs for new battery technology

For all you people out there looking for a better battery, help may be on the way. Within the next year you will probably see a new battery technology designated "Nickel Metal Hydride".

Briefly, this rechargeable battery technology will offer approximately double the capacity of identically sized Ni-Cad batteries.

Prototypes of NHM batteries are currently being produced by Gates Energy Products located in Gainesville, Florida.

Here are the specs for the AA sized cells. Other size cells are also available.

Model GMH-1100AA

Cell size AA

Type HYDRITECH-Rechargeable Nickel Hydride

Voltage 1.2V

Capacity

Typical @ 5 hr rate 1100 mAh

Minimum @ 5 hr rate 1000 mAh

Minimum @ 1 hr rate 950 mAh

Effective Internal Resistance 38mohms

Max Discharge current

Continuous 9 Amps

Momentary (1 second) 18 Amps

Charging

	Standard	Quick	Fast
min charge rate mA	50	50	50
Time required (hr)	38-40	38-40	38-40

Max charge rate (mA)	110	367	1320
Time Required	16-20	4-5	1.0-1.2

Min Cont overcharge(mA) 5 5 5

Max Cont overcharge(mA) 30 30 30

Weight 24.5 grams

Dimensions -- same as AA

I have six of these cells and they do in fact offer about double the capacity of Ni-Cads. Downside is that they have a very poor shelf life. I have no specific data on that at this time. Prices will be about \$3 per AA cell.

So, coming to a theatre near you.....!!

Gary / KE9ZM

At any given time, 50 percent of the golfers in this country are cheating...the other half aren't keeping score.

ARRL Bulletin 56 ARLB056
From ARRL Headquarters
Newington CT June 22, 1992
To all radio amateurs

FCC has proposed to relax its rules for amateurs concerning some public service communications currently prohibited. The proposed changes, in PR Docket 92-136, would give amateurs greater flexibility in providing communications for public service activities such as parades, fairs, and races, as well as for certain personal communications.

The proposed changes are based on recommendations of the ARRL as outlined in March, 1992 QST, page 62. In order to protect the non-commercial basis for the amateur service, any communications for hire or for material compensation, direct or indirect, would continue to be strictly prohibited.

The FCC's announcement of the proposal, made June 18, contains one caveat for amateurs. While eliminating some of the existing restrictions would provide the flexibility to expand public service activities and satisfy the personal communications interests (of amateurs), the potential for commercial exploitation and abuse of the amateur service's allocated frequencies could increase.

How's that again?...Sign in a menswear show window...Wonderful bargains in shirts for men with 16 and 17 necks.

Let us pray...When called on to deliver the offertory prayer, a deacon said... O Lord, why is it that a ten-dollar bill looks so large in the offering plate and so small in the grocery store?

Two archaeologists were telling each other of their experiences in digging. One said, "I excavated a city ten thousand years old, and found pieces of wire, which proves that they knew about communication by wires."

The other one, not to be out-done said, "I also excavated a city ten thousand years old, and did not find any wires, which proves that they knew about communicating by wireless"

I don't want to brag, but here it is July and I've kept every one of my New Year's resolutions. I've kept them in a manila folder in the back of my desk.

A Saturday morning golfer observed two small boys watching him and remarked... you boys will never learn by watching me... We are not interested in golf, mister...said the youngsters...We are going fishing as soon as you dig up some worms.

If all the cars in the United States were lined up end to end, someone would still pull out and try to pass.

Weather report heard on a TV station in Phoenix, Arizona...Tornado, watchers are on the lookout for parts of Iowa, Minnesota and Wisconsin.

The reason it's so difficult to make ends meet is because someone is always moving the ends.

How do you know when your bank is about to fail?

When it starts handing out calendars by the month.

NORTHWOODS AMATEUR RADIO



SWAPFEST - SUGARCAMP TOWN HALL

AUGUST 15, 1992

Sponsored by: Northwoods Amateur Radio Club,
Rhinelanders/Tomahawk Repeater Associations & ARRES
Starts at 8:00 AM with Auction at 1:00 PM



AMATEUR RADIO SWAPFEST = AUGUST 15

SUGARCAMP TOWN HALL - 12 MILES NORTH OF RHINELANDER ON HIGHWAY 17

TESTING:

1. Original License
2. Photocopy of License
3. Photo I.D.

8:30 Registration for testing sessions.

9:00 Testing session begins.

TALK-INS:

Talk-in on Rhinelanders Repeater 146.94

ADMISSION \$2.00

Children under 12 free.

Tables \$5.00, please register in advance with swapfest chairperson.

VENDOR

INFORMATION:

Vendors may set up the night before [August 14 from 6:00 until 10:00 pm.]

Vendors may enter building on Saturday morning [August 15 at 6:00 am.]

SWAPFEST

CHAIRPERSON:

For reservation and information contact:

Mary Berger NS9Q
367 Lois Street
Rhinelanders, Wisconsin 54501
(715) 362 - 9296

QUALITY VENDORS:

There will be a variety of vendors present at the swapfest. Vendors interested in participating in the swapfest should contact the swapfest chairperson as soon as possible to reserve a setup.

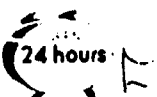
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April 4, 1993

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SWAPFEST 92

July 11, 1992
(Held every July)

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Shepard Ave. • Oak Creek, WI

(414) 762-3235 Extension 58
P.O. Box 102 South Milwaukee, WI 53172

Fox Cities Hamfest

Starlite Club, Hwy. 55 north of Kaukauna

HAMFEST INFO:
Don Baker
621 W. 7th St.
Kaukauna, WI 54130
414-766-3886

EXAM INFO:
Larry, KD9IA,
414-788-3823, or
Don, NB9J,
414-766-3886

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& Computer Swapfest**

Manitowoc County Expo

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"Lou" - 414-682-2557 (Nights) "Ron" - 414-793-4733 (Nights)
"Bob" - 414-684-5352 (Nights) "John" - 414-682-9151 (Days)

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61612-3508 OR CALL (309) 685-6698 FOR INFORMATION

14th Annual

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Info: Art Wysocki, N9BCA
3356 April Lane

715-344-2984
Stevens Point, WI 54481

EAU CLAIRE AMATEUR RADIO CLUB

SWAPFEST

July 18, 1992

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(715) 834-1303

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